ORDER NO.VM0403012C8

Service Manual

Digital Video Camera / Recorder

Panasonic Mini DV PAL USB MultiMediaCard™ SD

NV-GS200EG / NV-GS200EB / NV-GS200EGM / NV-GS200GC / NV-GS200GN / NV-GS200GCT

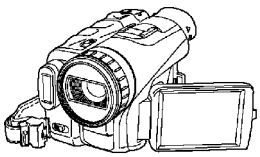
NV-GS120EG / NV-GS120EB / NV-GS120EGM / NV-GS120GC / NV-GS120GN / NV-GS120GCT

VOL.1

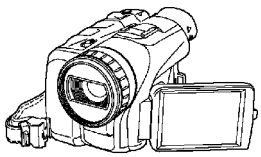
A-MECHANISM

Colour

(S).....Silver Type



NV-GS200



NV-GS120

SPECIFICATIONS

SPECIFICATIONS

Digital Video Camera

ITEM	SPECIFICATION
POWER	Source: DC 7.9 / 7.2 V Consumption: Recording 3.9W (When using Viewfinder) (NV-GS200 Series) 4.4W (When using LCD Monitor) (NV-GS200 Series) 3.1W (When using Viewfinder) (NV-GS120 Series) 3.6W (When using LCD Monitor) (NV-GS120 Series)
RECORDING FORMAT	Mini DV (Consumer-use Digital Video SD Format)
TAPE USED	6.35 mm digital video tape
RECORDING / PLAYBACK TIME	SP mode: 80 min. with DVM80 LP mode: 120 min. with DVM80
CAMERA	Filter Diameter: 37.0 mm Zoom: 10:1 Power Zoom Monitor: 2.5-inch LCD Lens: Auto Iris, F1.8, Focal Length; 2.45 - 24.5 mm Macro (Full Range AF) Image Sensor: 1/6-inch CCD Image Sensor Viewfinder: Colour Electronic Viewfinder
WEB CAMERA	Compression: Motion JPEG Image Size: 320 X 240 pixels (QVGA)
VIDEO	Recording System: Digital Component Television System: CCIR; 625 Lines, 50 Fields PAL Colour Signal Video Output Level: 1.0 Vp-p, 75ohm S-Video Output Level: Y Output; 1.0 Vp-p, 75ohm C Output; 0.3 Vp-p, 75ohm Video Input Level: 1.0 Vp-p, 75ohm (NV-GS200 Series, NV-GS120GC/GCT/GN) S-Video Input Level: Y Input; 1.0 Vp-p, 75ohm C Input; 0.3 Vp-p, 75ohm (NV-GS200 Series , NV-GS120GC/GCT/GN)
AUDIO	Recording System: PCM Digital Recording 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch) Audio Output Level (Line): 316mV, 600ohm Audio Input Level (Line): 316mV, 10kohm or more (NV-GS200 Series, NV-GS120GC/GCT/GN) Mic Input: Mic sensitivity -50dB(0dB=1V/Pa, 1kHz) (Stereo Mini Jack)
CARD MEMORY FUNCTIONS	Recording Media: SD Memory Card, MultiMediaCard Image Compression: JPEG Video Compression: MPEG4 (NV-GS200 Series Only) MPEG4 Image Size (NV-GS200 Series Only): SUPERFINE: 320 X 240 pixels (QVGA) FINE: 320 X 240 pixels (QVGA) NORMAL: 176 X 144 pixels (QCIF) ECONOMY: 176 X 144 pixels (QCIF) Sound Compression: G.726 (NV-GS200 Series Only) Still Image Size: Mega-Pixel Recording; 1760 X 1320 (2.3 million pixels) (NV-GS200 Series) 1520 X 1152 (1.7 million pixels) (NV-GS120 Series) VGA Recording; 640 X 480

ITEM	SPECIFICATION
STANDARD ILLUMINATION	1,400 lx
MINIMUM REQUIRED ILLUMINATION	1 lx (Colour Night View Mode)
USB	Card reader / writer function, USB 2.0 compliant (maximum 12Mbps) No copyright protection support / Mini System editing terminal / Pict Bride - compliant
DIGITAL INTERFACE	DV Input/Output Terminal (IEEE1394, 4-pin)
VIDEO FLASH	GN5.5 (NV-GS200 Series Only)
MICROPHONE	Stereo
SPEAKER	1 round speaker ϕ20 mm
OPERATING TEMPERATURE	0 - 40 °C
OPERATING HUMIDITY	10 - 80 %
WEIGHT	Approx. 470 g (without Battery, DV cassette and lens cap) (NV-GS200 Series) Approx. 570 g (with Battery, DV cassette and lens cap) (NV-GS200 Series) Approx. 450 g (without Battery, DV cassette and lens cap) (NV-GS120 Series) Approx. 550 g (with Battery, DV cassette and lens cap) (NV-GS120 Series)
DIMENSIONS	Approx. 70 (W) x 75 (H) x 126 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack Unit 1 pc. DC Cable 1 pc. AC Cord 1 pc. AV Cable 1 pc. Remote Controller 1 pc. Bottom-type Battery 1 pc. Hood Cap Unit 1 pc. CD-ROM 1 pc. USB Cable 1 pc. SD Card 1 pc. Shoulder Belt 1 pc. Universal Remote Controller 1 pc. Cleaning tape (NV-GS200GC/GCT/GN, NV-GS120 GS/GCT/GN)
SOLDER	This model use lead free solder (PdF).

Weight and dimensions are approximate values.
Specifications may change without prior notice.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION

This service manual contains technical information which will allow service personnel's to understand and service this model.Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Note 1:
These movie camera uses AC Adaptor VSK0651.

Note 2:
1) This service manual does not contain the following information, because of the impossibility of sevicing at component level.

1. Schematic Diagram, Block Diagram and C.B.A. layout of Main C.B.A./ Sub C.B.A.

2. Parts List for individual parts of Main C.B.A./ Sub C.B.A.

2) The following category is/are recycle module part. Please send it/them to Central Repair Center.
***Main C.B.A. (VEP03G57B: NV-GS200 SERIES, VEP03G57F: NV-GS120EG/EB/EGM, VEP03G57G: NV-GS120GC/GN/ GCT)**
***Sub C.B.A. (VEP23599B: NV-GS200 SERIES, VEP23602B: NV-GS120 SERIES)**

When a part replacement is required for repairing each Main C.B.A., replace the assembly parts. (Main C.B.A. and Sub C.B.A.)
The following circuits are contained in Main C.B.A.

1. Main Connection Circuit
2. AVIO Circuit
3. EX Input Circuit
4. LCD Circuit
5. Drive Circuit
6. Video Circuit
7. Power Circuit
8. Control Circuit

The following circuits are contained in Sub C.B.A.

1. Sub Connection Circuit
2. Sub Power Circuit
3. MPEG Circuit
4. Lens Drive Circuit
5. Camera Circuit

1.2. FEATURE COMPARISON CHART

FUNCTION	GS200		GS120	
	EG/EGM/EB	GC/GCT/GN	EG/EGM/EB	GC/GCT/GN
Image Sensor Total Pixels	800K	800K	540K	540K
Card Function Still Picture Size (Mega-Pixel Recording)	1760×1320	1760×1320	1520×1152	1520×1152
Card Function Video Compression	MPEG4	MPEG4	-	-
External DV/Video Input	O/O	O/O	O/-	O/O
Video Flash	O (GN5.5)	O (GN5.5)	-	-
Standard Accessories Cleaning Tape	-	O	-	O

1.3. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp or printing on the PCB.
(Please refer to figures.)

Printed case

Stamped case

CAUTION:

- Pb free solder has a higher melting point than standard solder;
  Typically the melting point is 50 °F - 70 °F (30 °C - 40 °C) higher.
  Please use a soldering iron with temperature control and adjust it to 700 °F±20 °F (370 °C± 10 °C).
  In case of using high temperature soldering iron, please be carefull not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100 °F/600 °C).
- All products with the printed circuit board with PbF stamp or printing must be serviced with lead free solder.
  When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
  and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn96.5 Ag3.0 Cu0.5.

2. CAUTION FOR AC CORD (VJA0940 TYPE)

2.1. INFORMATION FOR YOUR SAFETY

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

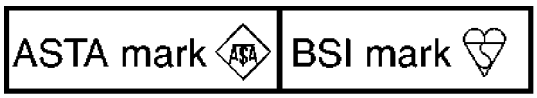
FOR YOUR SAFETY

DO NOT REMOVE THE OUTER COVER

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.2. CAUTION FOR AC MAINS LEAD

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362
Check for the ASRA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.
If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

2.2.1. Important

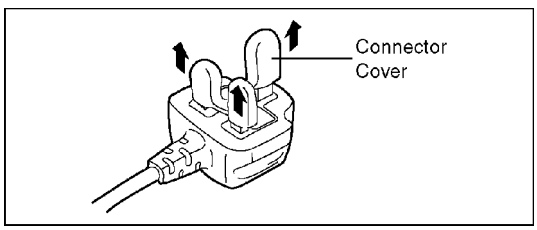
The wires in this mains lead are coloured in accordance with the following code:

Blue	**Neutral**
Brown	**Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.

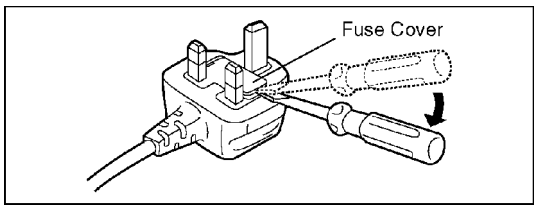
2.2.2. Before use

remove the Connector Cover as follows.

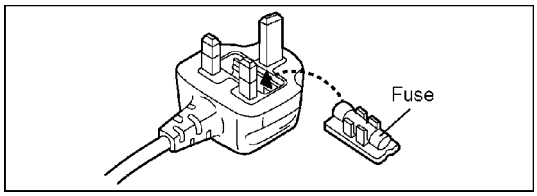


2.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



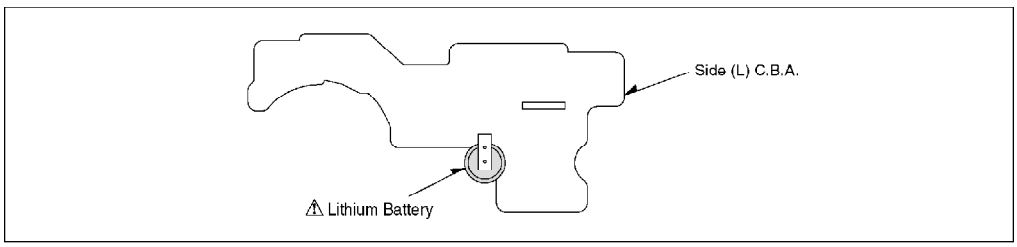
2. Replace the fuse and attach the Fuse cover.



3. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1. **Remove the Side Case (L) C.B.A.. (Refer to Disassembly Procedures.)**
2. **Unsolder the Lithium Battery "ML-621S/F9D" and then replace the new one. (See Fig. B1.)**
3. **Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.**

Fig. B1



Note:
The lithium battery is a critical component. (Type No.: ML-621S/F9D Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

PRECAUTION
Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

VORSICHT
Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom Hersteller empfohlenen Batterie vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

4. ADJUSTMENT PROCEDURES

4.1. DISASSEMBLE FLOW CHART

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mecha. Unit in order to access to be serviced. When reinstalling, perform the steps in the reverse order.

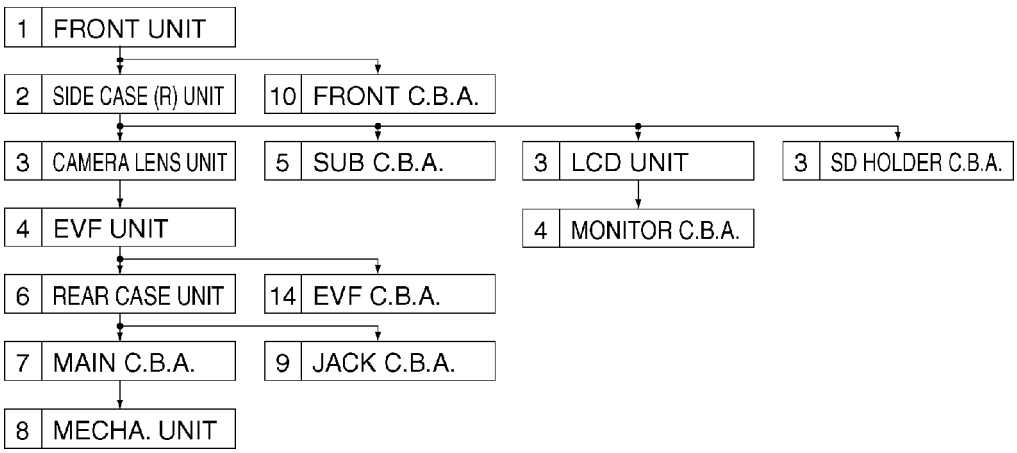
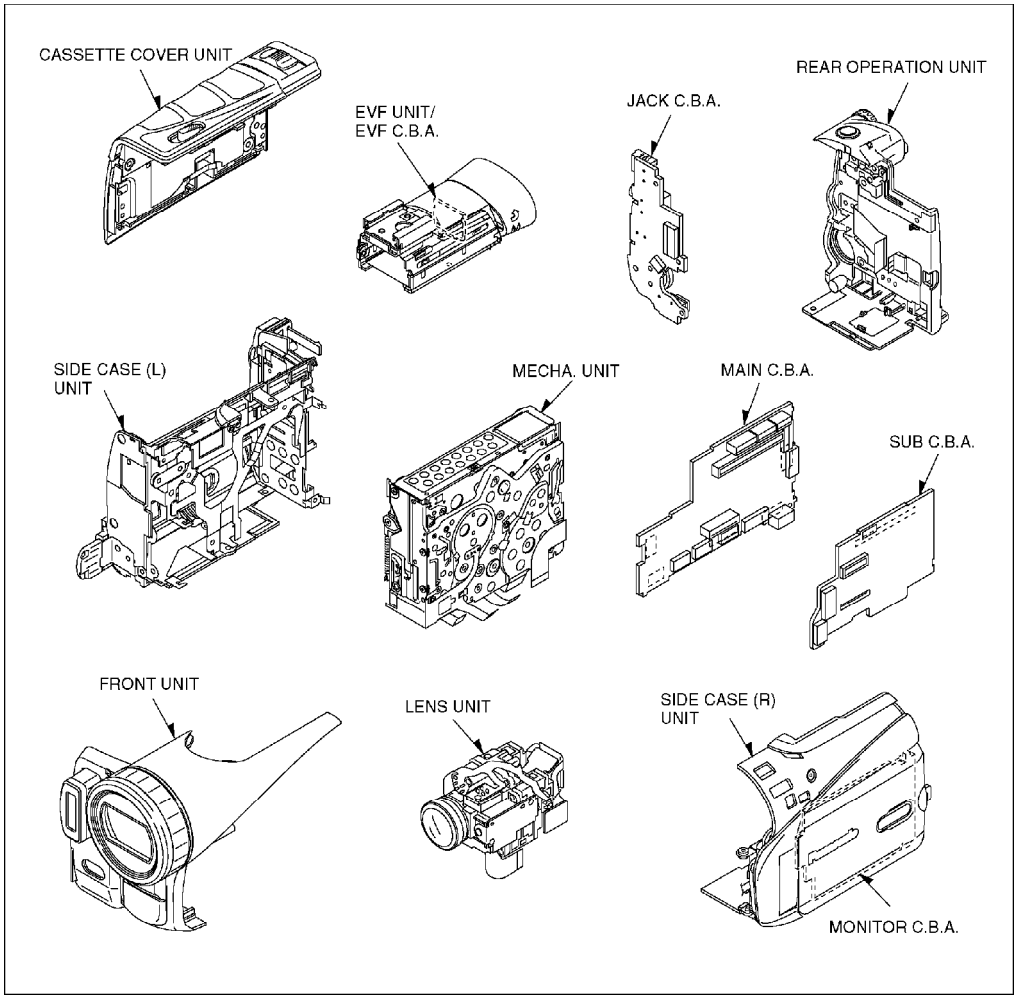


Fig. F1



4.2. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item / Part	Fig.	Removal (Screw,Connector,Flex. & Other)
1	Front Unit	Fig. D2	2-Screws (A), 1-Screw (B) Remove Grip Belt Piece.
		Fig. D3	1-Screw (C), 1-Screw (D), 1-Screw (E)
		Fig. D4	1-Connector FP4801 Front Unit
2	Side Case (R) Unit	Fig. D5	1-Screw (F), 2-Screws (G)
		Fig. D6	1-Screw (H) 3-Connectors FP601, FP3401, FP6503 Side Case (R) Unit
3	Camera Lens Unit	Fig. D7	1-Screw (I) 2-Connectors FP701,PS201 Camera Lens Unit
4	EVF Unit	Fig. D8	1-Screw (J)
		Fig. D9	1-Screw (K) 2-Connectors FP603,FP3402 EVF Unit
5	Sub C.B.A.	Fig. D10	2-Connectors FP4002,PS3001 Sub C.B.A.
6	Rear Case Unit	Fig. D11	1-Screw (L), 1-Screw (M), 1-Screw (N) 2-Connectors FP1001,FP6502 Rear Case Unit
7	Main C.B.A.	Fig. D12	8-Connectors FP2201,FP2202,FP2203,FP2204, FP5001, FP6501,FP6504,FP6505 1-Screw (O) Remove <b> Main C.B.A.
8	Mecha. Unit	Fig. D13	3-Screws (P) Mecha. Unit
9	Jack C.B.A.	Fig. D14	2-Screws (Q), 1-Screw (R) Jack C.B.A.

No.	Item / Part	Fig.	Removal (Screw,Connector,Flex. & Other)
10	Front C.B.A.	Fig. D15	<GS200> 2-Screws (S), 1-Screw (T), 1-Screw (U) 2-Connectors FP7001,FP7002 Front C.B.A./Flash SW C.B.A. <GS120> 3-Screws (S) FrontC.B.A.
11	LCD Unit	Fig. D16	1-Screw (V)
		Fig. D17	3-Screws (W) Rear Cover
		Fig. D18	2-Screws (X) LCD Unit
12	Monitor C.B.A.	Fig. D19	2-Screws (Y) 6-Tabs 1-Connector FP904 LCD Case (Upper)
		Fig. D20	1-Connector FP901 Monitor C.B.A.
13	SD Holder C.B.A.	Fig. D21	1-Screw (Z), 1-Screw (a) 1-Connector FP6601 4-Tabs SD Holder Unit *Paying attention to SD opening SW in the case of, assembling the SD holder unit is installed, in thecondition where opened the SD door.
		Fig. D22	1-Screw (b) SD Door Unit
		Fig. D23	SD Slide Link/SD Holder
		Fig. D24	SD Support Plate Unit/SD Door Spring/SD Slide Cover
		Fig. D25	SD Holder C.B.A.

No.	Item / Part	Fig.	Removal (Screw,Connector,Flex. & Other)
14	EVF C.B.A.	Fig. D26	Tape
		Fig. D27	4-Screws (c) EVF UNIT (1)
		Fig. D28	2-Screws (d) EVF Hinge
		Fig. D29	Pushing A department I remove the View ADJ. Unit.
		Fig. D30	Remove a,b,c,d department (remove a, b department previously) EVF Case (Upper) Remove e,f department EVF LCD Unit
		Fig. D31	2-Connectors FP801,FP802 Remove g,h department EVF C.B.A.

Fig. D1

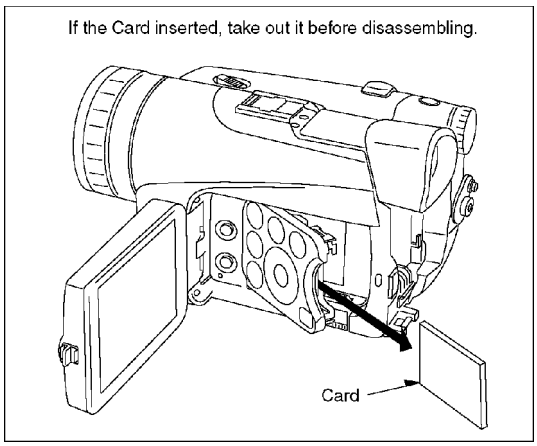


Fig. D2

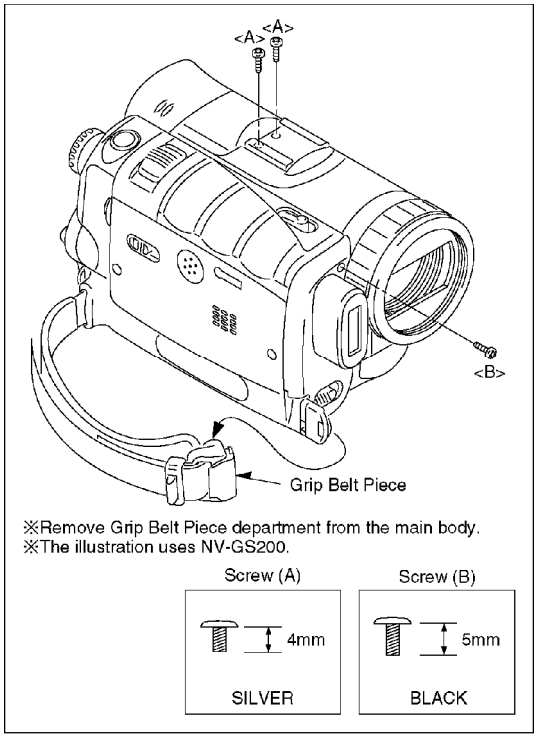

<A>
<A>
<B>
Grip Belt Piece
※Remove Grip Belt Piece department from the main body.
※The illustration uses NV-GS200.
Screw (A)
4mm
SILVER
Screw (B)
5mm
BLACK

Fig. D3

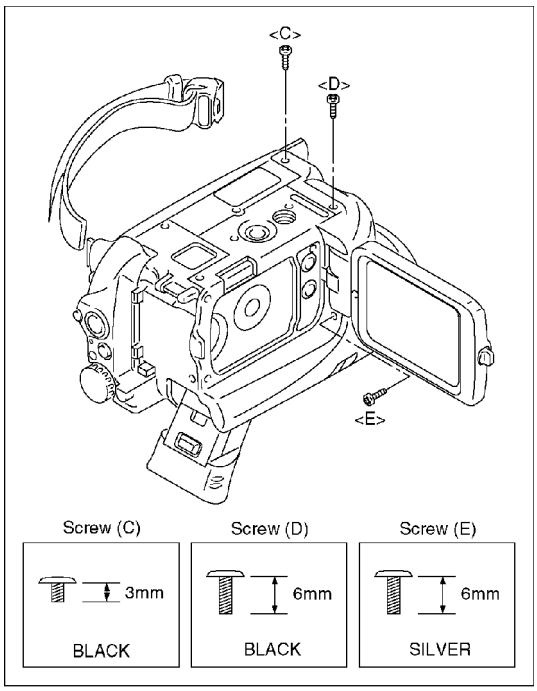

<C>
<D>
<E>
Screw (C)
3mm
BLACK
Screw (D)
6mm
BLACK
Screw (E)
6mm
SILVER

Fig. D4

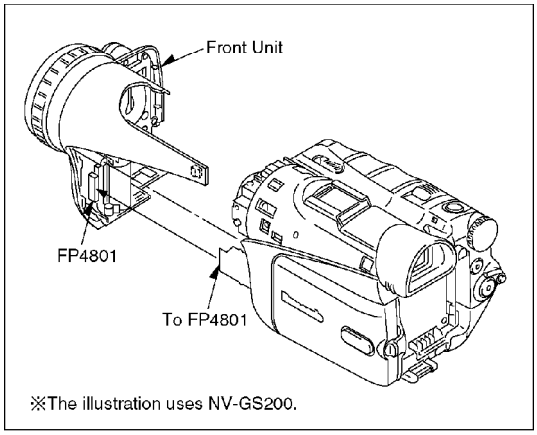

Front Unit
FP4801
To FP4801
※The illustration uses NV-GS200.

Fig. D5

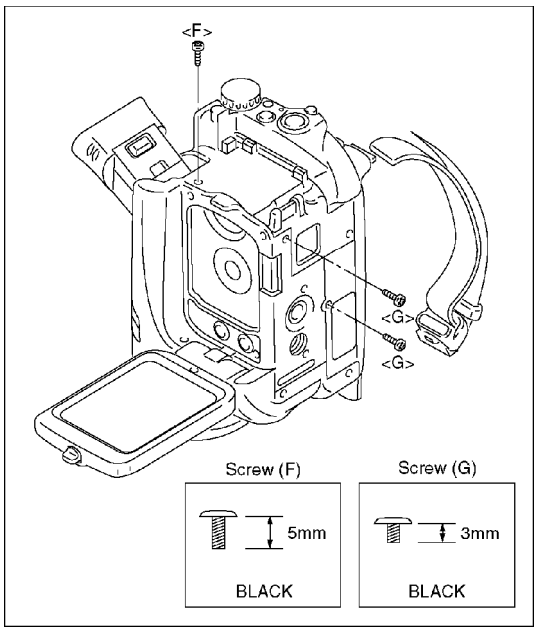

<F>
<G>
<G>
Screw (F)
5mm
BLACK
Screw (G)
3mm
BLACK

Fig. D6

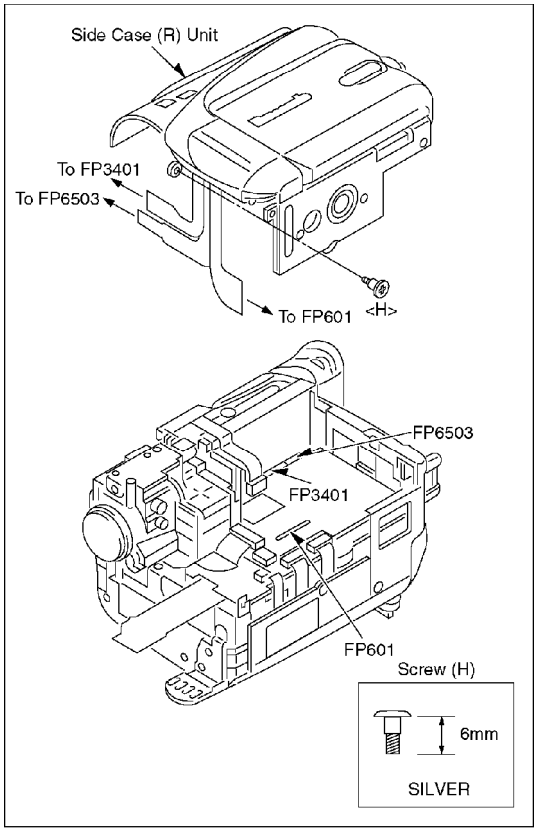

Side Case (R) Unit
To FP3401
To FP6503
To FP601
<H>
FP6503
FP3401
FP601
Screw (H)
6mm
SILVER

Fig. D7

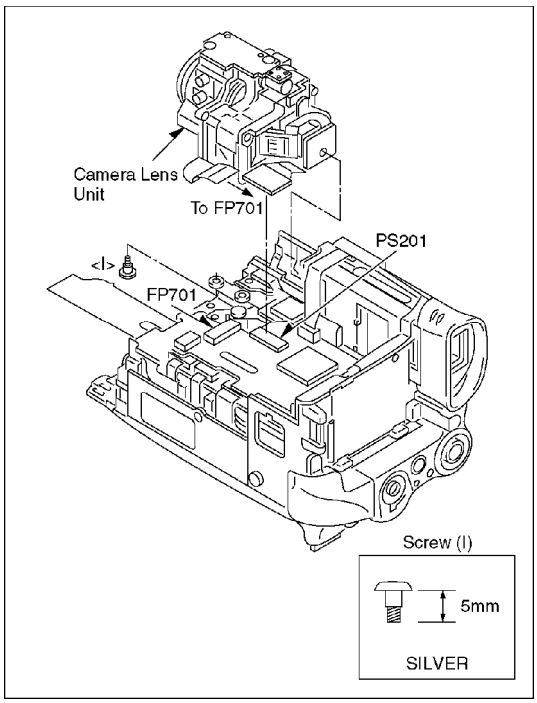

Camera Lens Unit
To FP701
PS201
<I>
FP701
Screw (I)
5mm
SILVER

Fig. D8

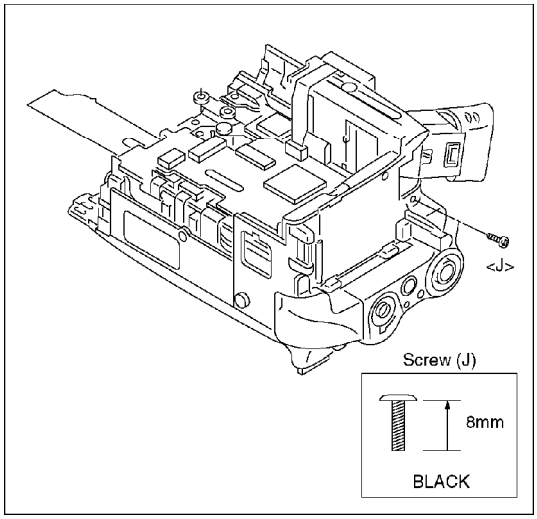


Fig. D9

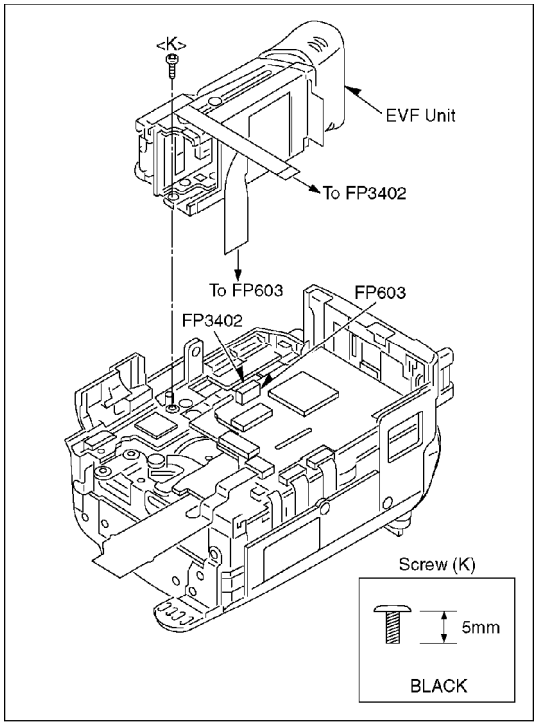


Fig. D10

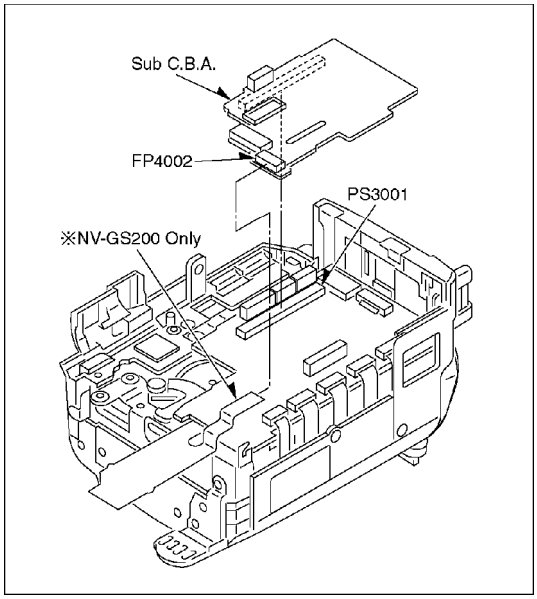


Fig. D11

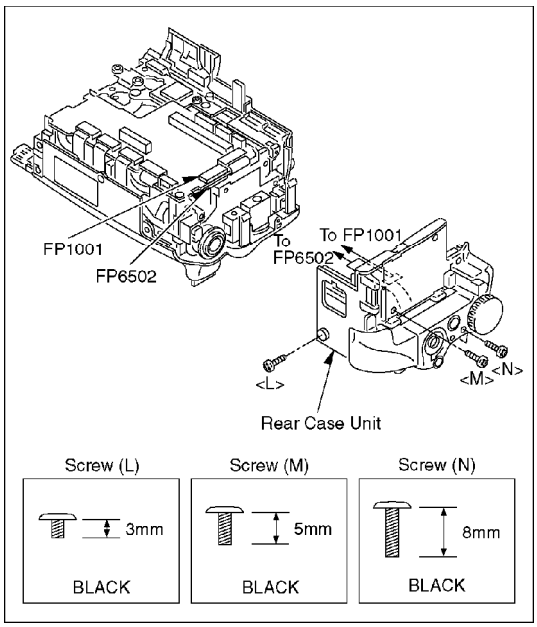


Fig. D12

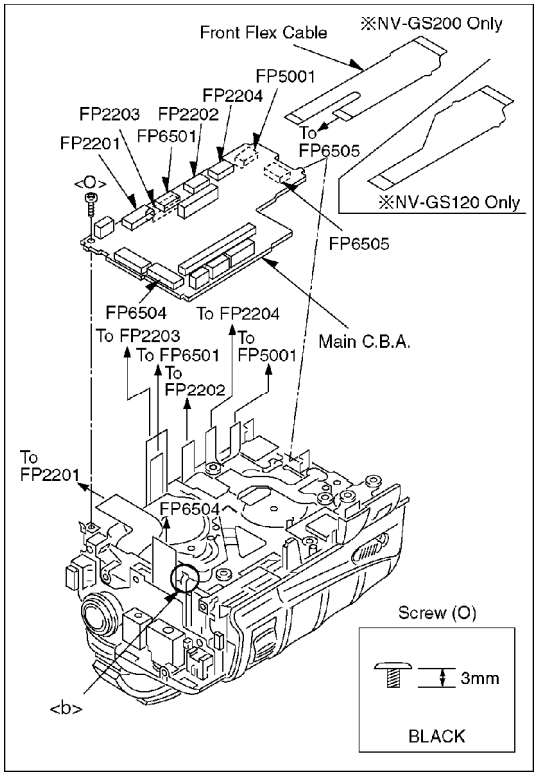


Fig. D13

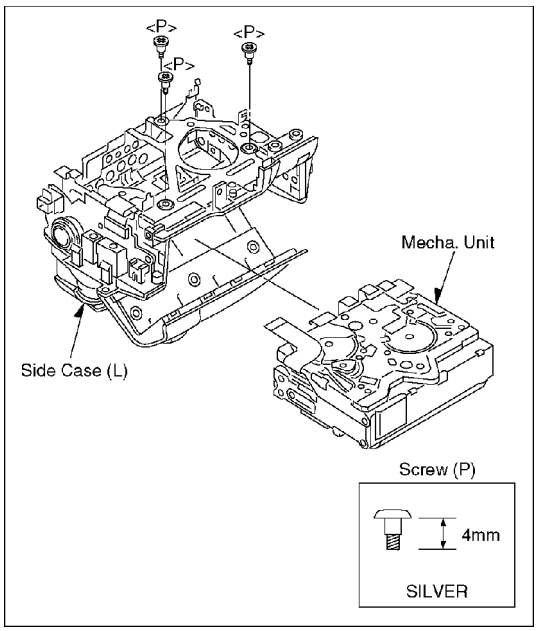


Fig. D14

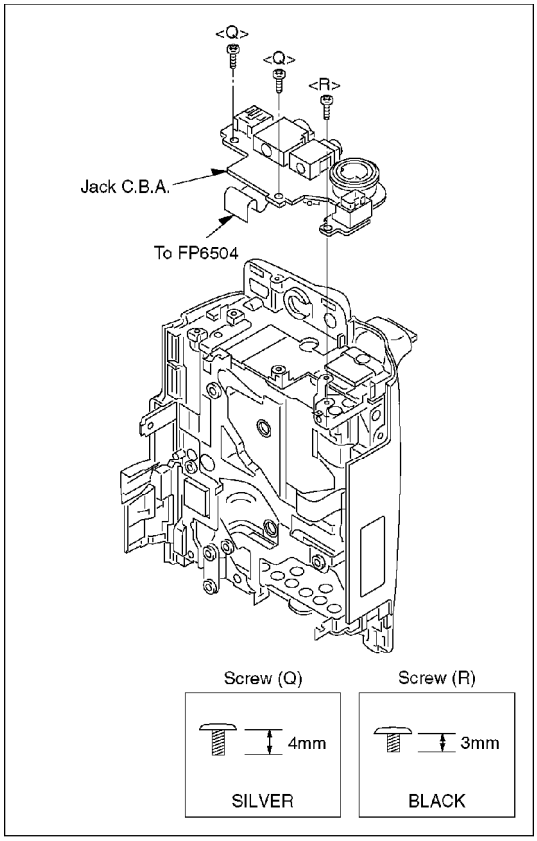


Fig. D15

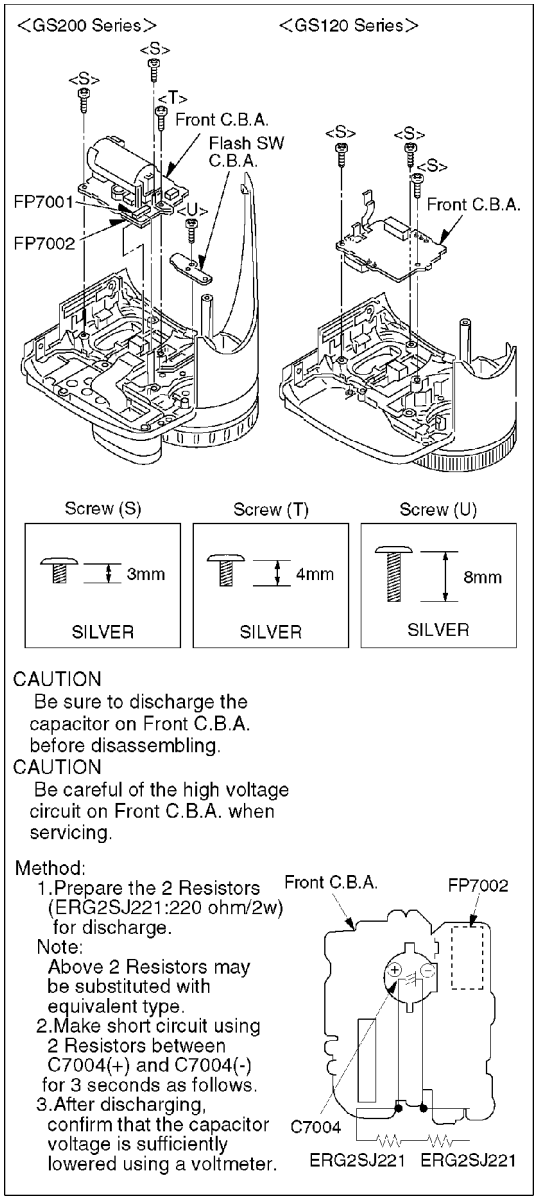

<GS200 Series>
<GS120 Series>
<S>
<T>
<U>
Front C.B.A.
Flash SW C.B.A.
FP7001
FP7002
Screw (S)
Screw (T)
Screw (U)
3mm
4mm
8mm
SILVER
SILVER
SILVER
CAUTION
Be sure to discharge the capacitor on Front C.B.A. before disassembling.
CAUTION
Be careful of the high voltage circuit on Front C.B.A. when servicing.
Method:
1.Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.
Note:
Above 2 Resistors may be substituted with equivalent type.
2.Make short circuit using 2 Resistors between C7004(+) and C7004(-) for 3 seconds as follows.
3.After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter.
Front C.B.A.
FP7002
C7004
ERG2SJ221
ERG2SJ221

Fig. D16

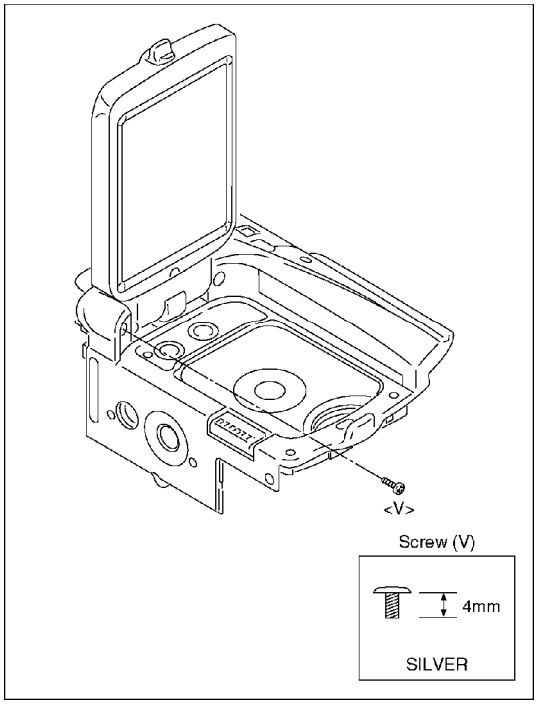


Fig. D17

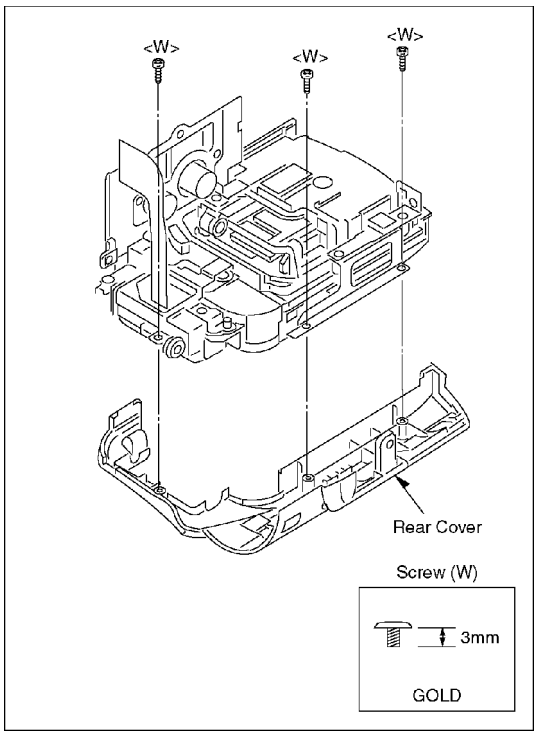


Fig. D18

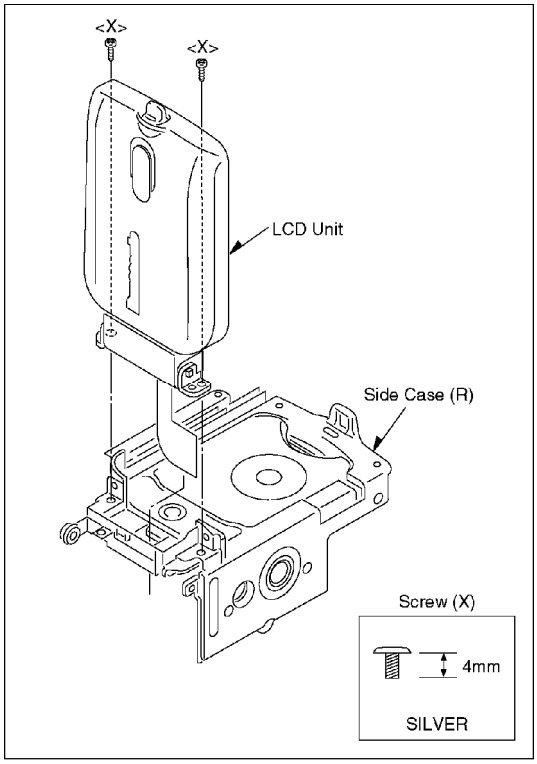


Fig. D19

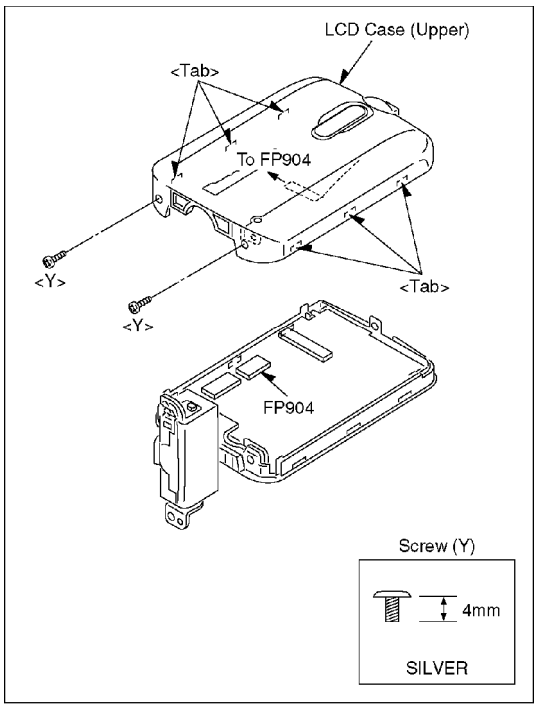


Fig. D20

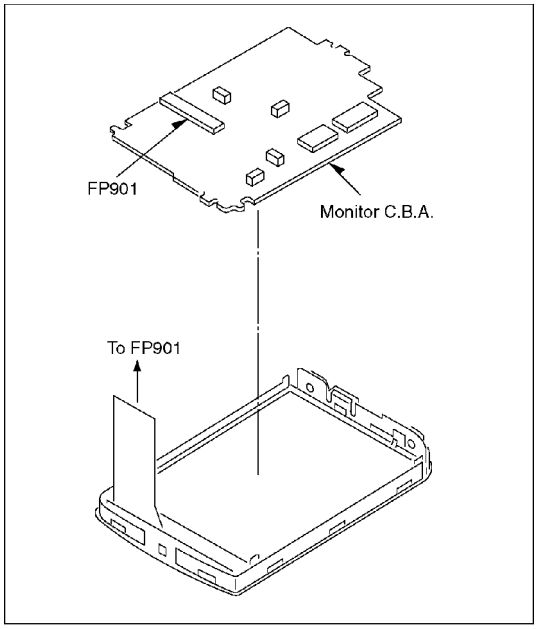


Fig. D21

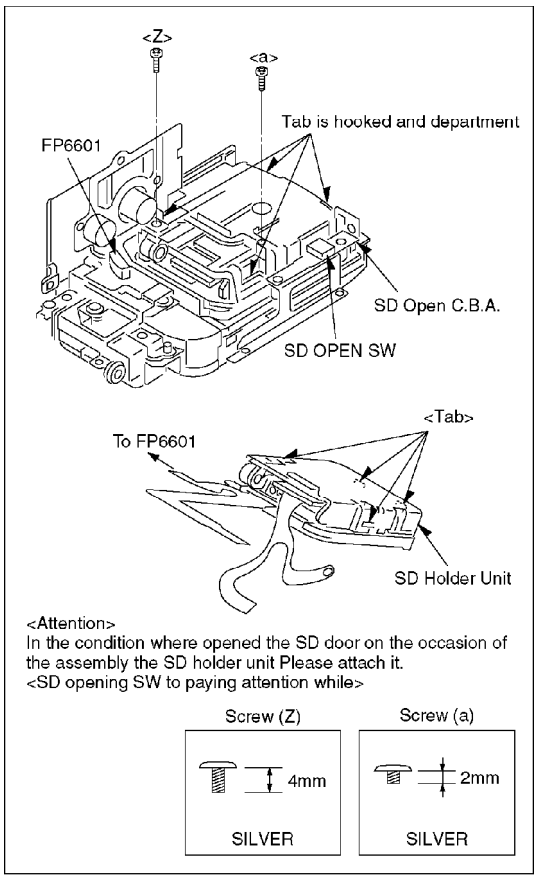


Fig. D22

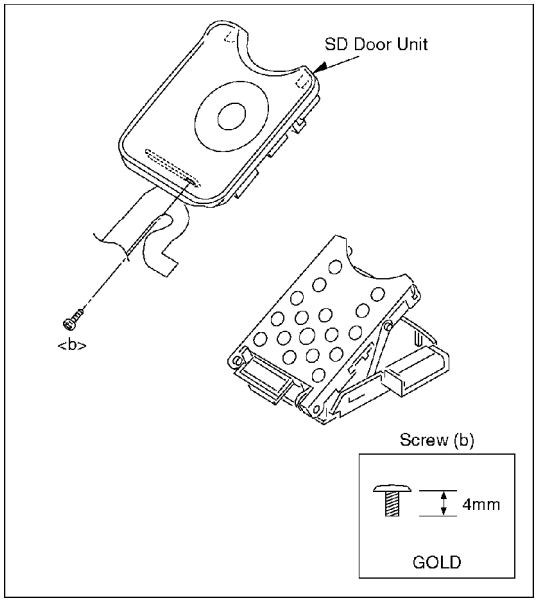


Fig. D23

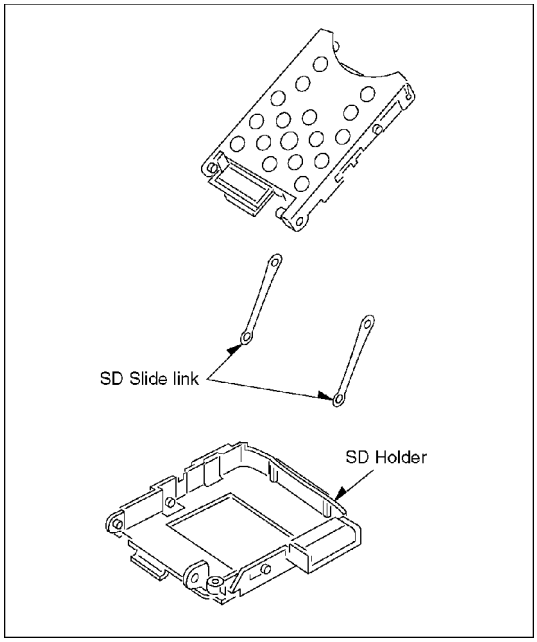


Fig. D24

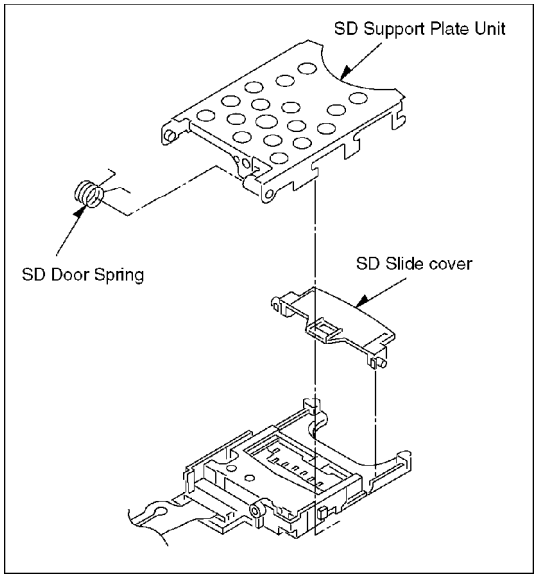


Fig. D25

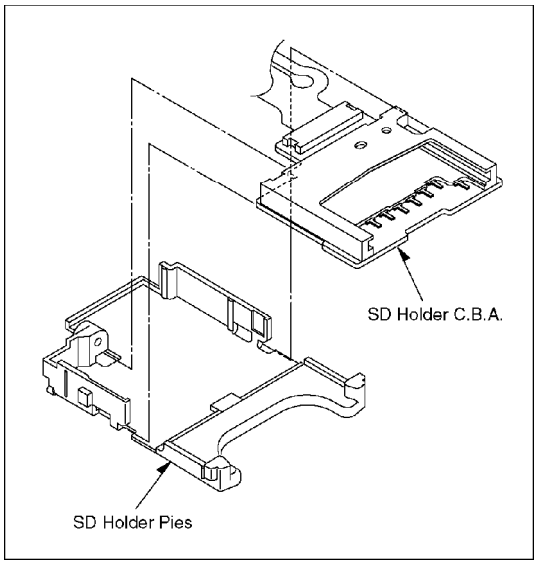


Fig. D26

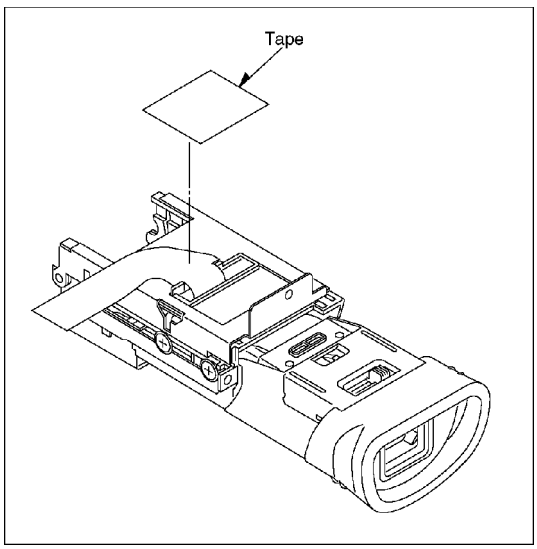


Fig. D27

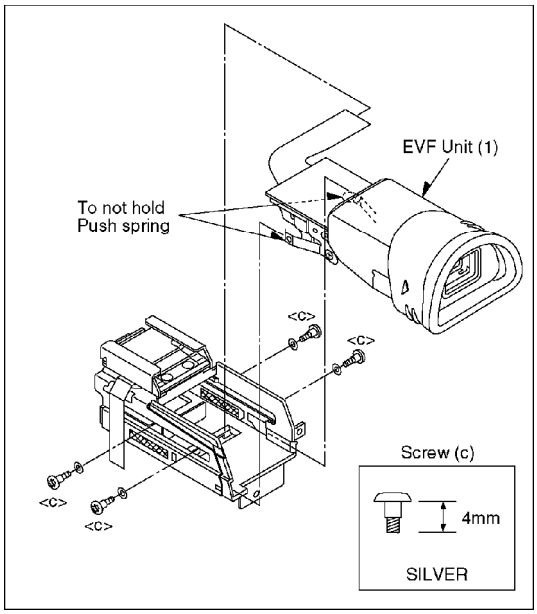


Fig. D28

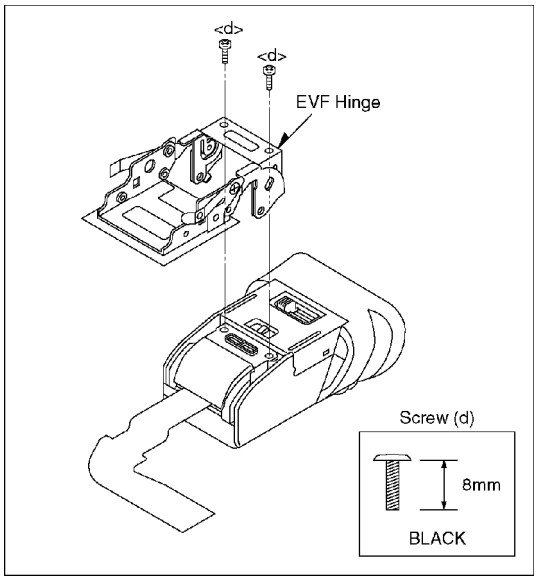


Fig. D29

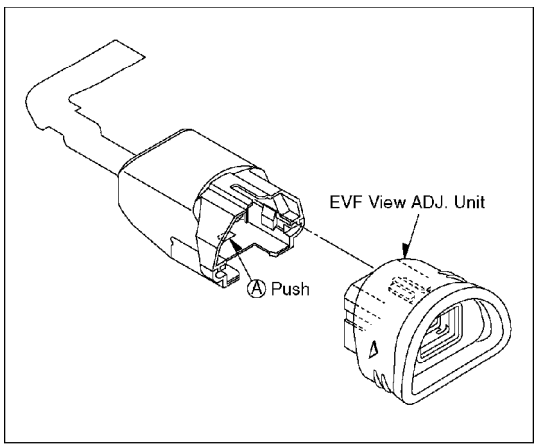


Fig. D30

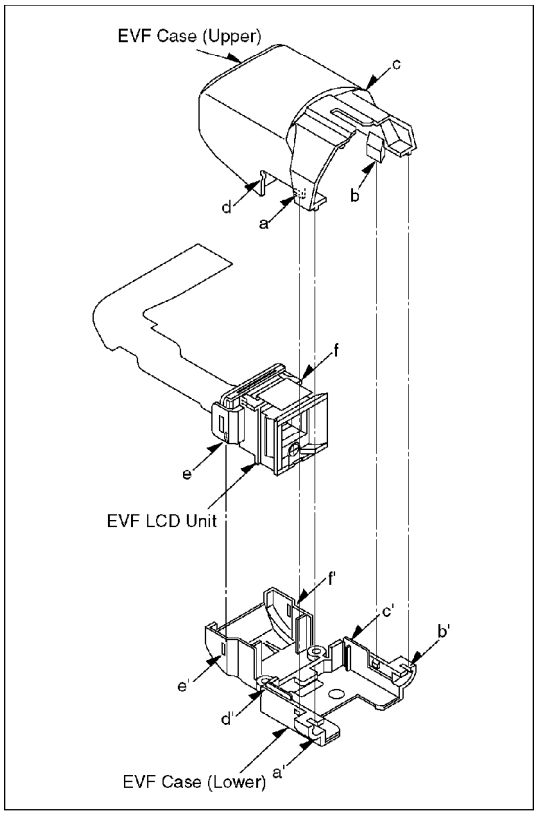
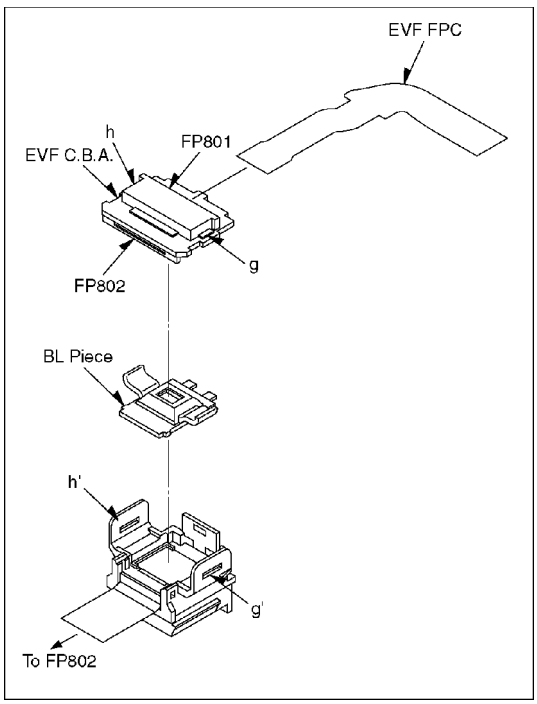


Fig. D31



4.3. DISASSEMBLY PROCEDURES MECHA. UNIT

Flow-Chart for Disasswmbly Procedures

No.	Item / Part	Fig.	Removal (Screw, Connector, Flex. & Other)
1	Cassette Up Unit	Fig. M1	It makes the mechanism position in Eject condition (For Battery)
		Fig. M2	3-Screws (A)
		Fig. M3	3-Tabs I remove the piece arrangement unit from rail department
2	Cylinder Unit	Fig. M4	1-Screw (B)
		Fig. M5	3-Screw (C) Cylinder Unit

Fig. M1

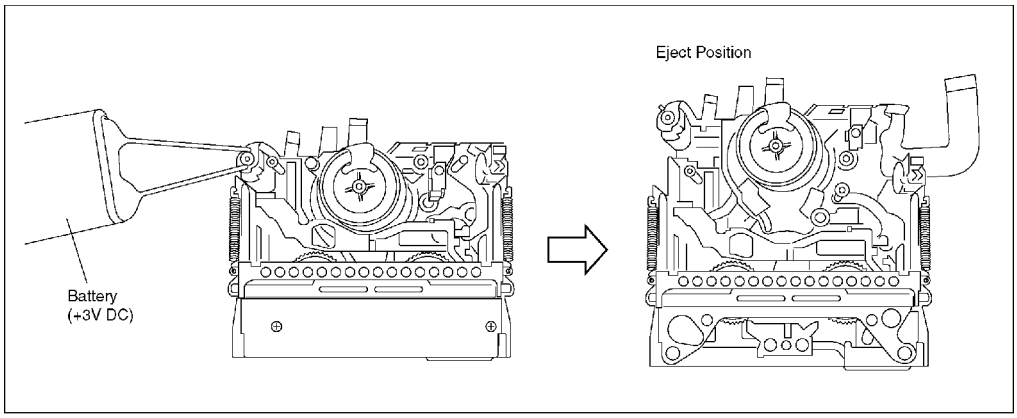


Fig. M2

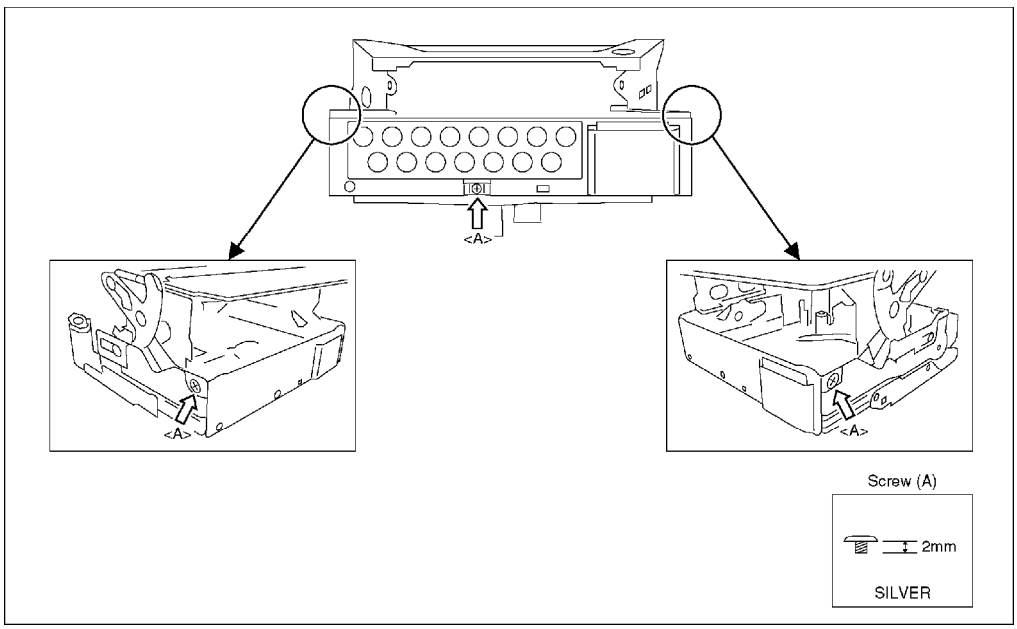


Fig. M3

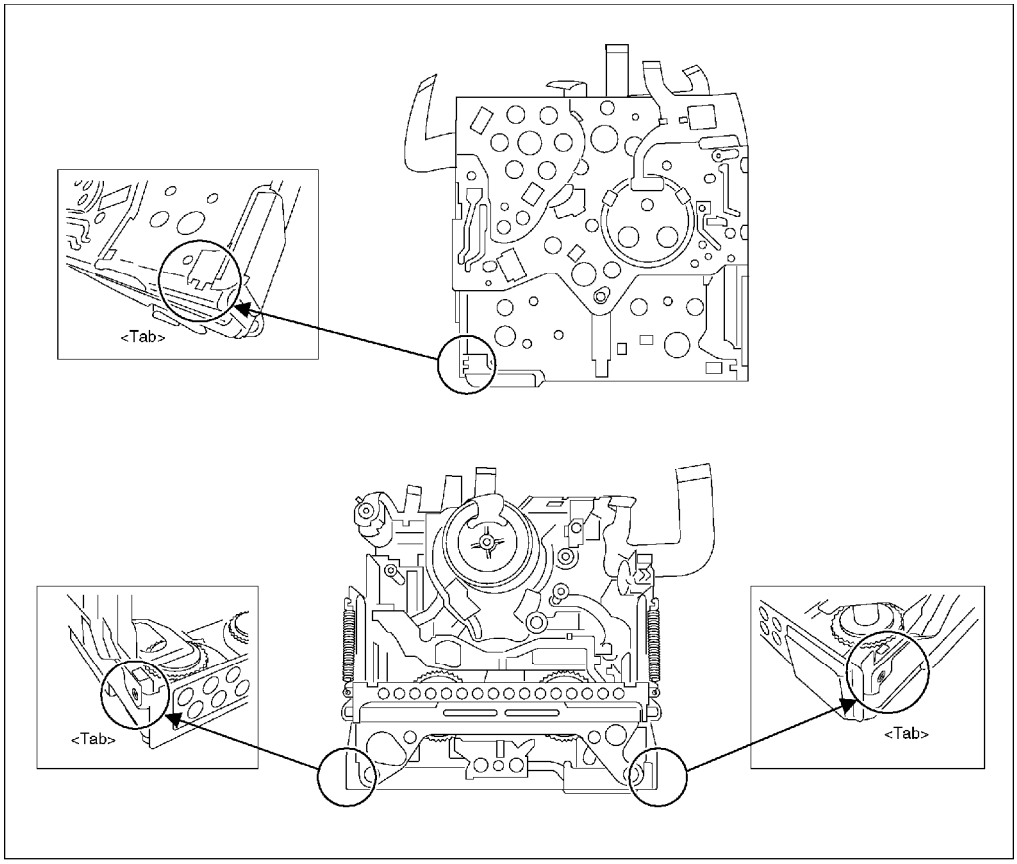


Fig. M4

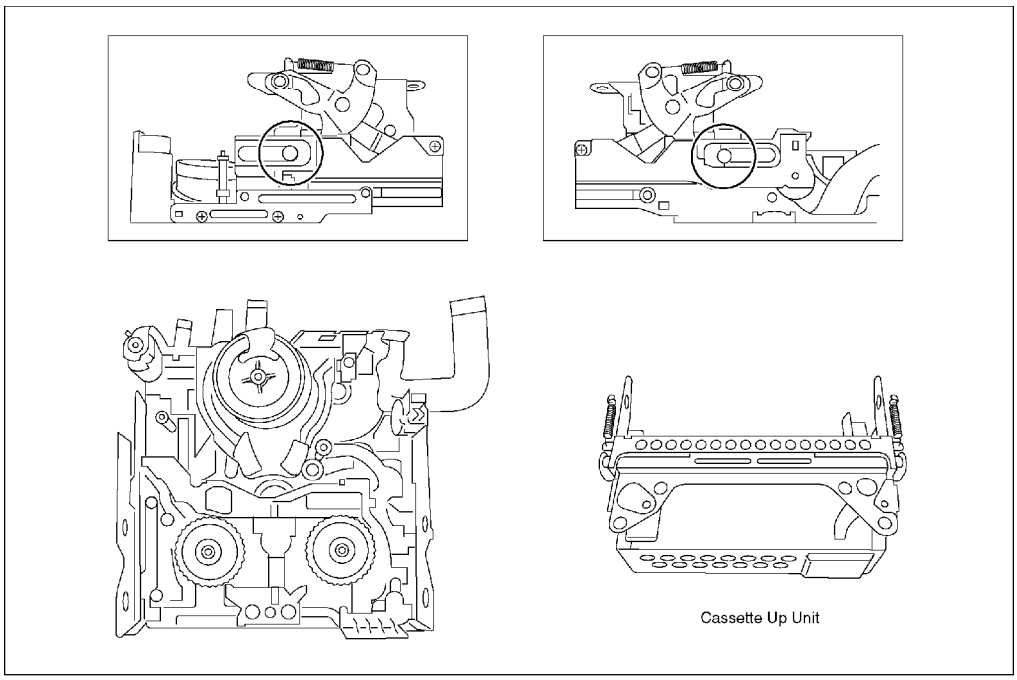


Fig. M5

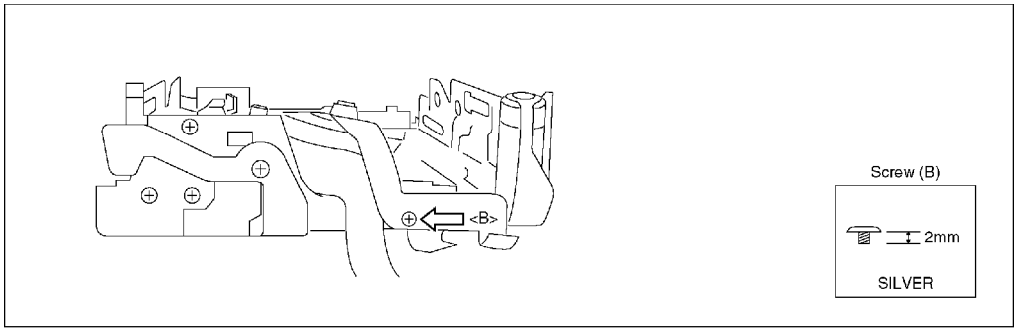
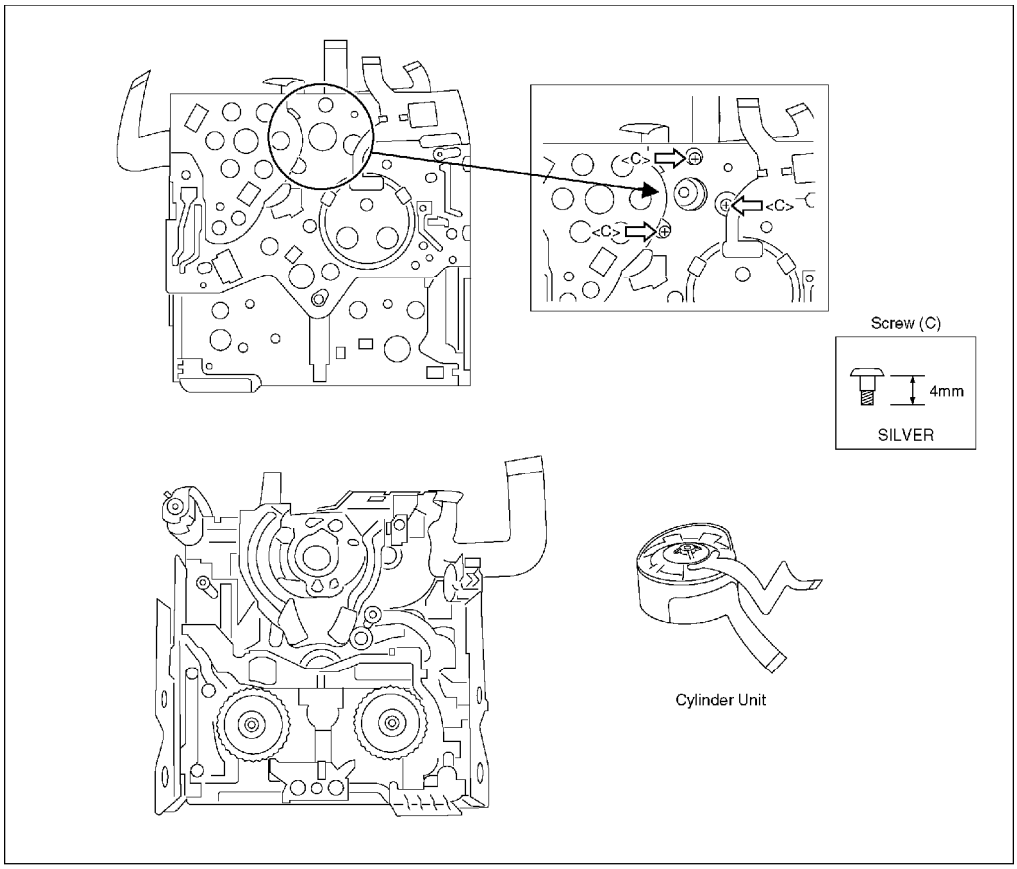


Fig. M6



4.4. DISASSEMBLY PROCEDURES OF CAMERA LENS UNIT

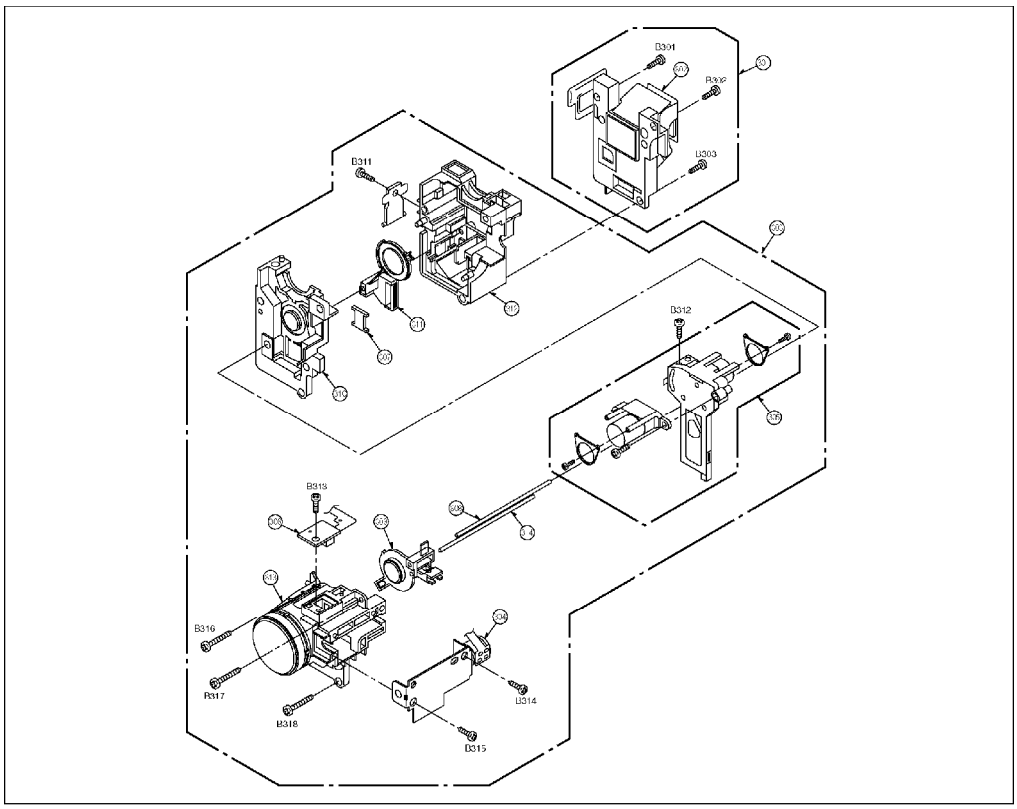
The following flowchart describes order or steps for removing the Camera lens unit and certain printed circuit boards in order to make access to the item needing service. / To reassemble the unit follow the steps in reverse order.

Fig. L1

1. Prism Unit	Ref.-No.301
2. Master Flange Unit	Ref.-No.312
3. 4th Moving Frame Unit & Side Yoke	Ref.-No.311/307
4. 3rd Moving Frame Unit	Ref.-No.310
5. IRIS Unit	Ref.-No.305
6. Guide Pole & 2nd Moving Frame Unit	Ref.-No.308/309/314
7. Zoom Motor Unit	Ref.-No.304
8. Lens Flex. C.B.A. & Lens Main Frame Unit	Ref.-No.306/313

Note 1:
Each Ref.numbers are equivalent to number of Fig.L2 and Parts List.

Fig. L2

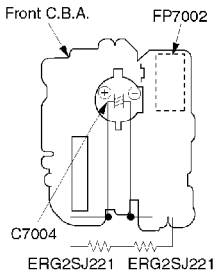


5. SERVICE CAUTION

5.1. HOW TO DISCHARGE THE CAPACITOR ON FRONT C.B.A.

CAUTION
Be sure to discharge the capacitor on Front C.B.A. before disassembling.
CAUTION
Be careful of the high voltage circuit on Front C.B.A. when servicing.

Method:
1.Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.
Note:
Above 2 Resistors may be substituted with equivalent type.
2.Make short circuit using 2 Resistors between C7004(+) and C7004(-) for 3 seconds as follows.
3.After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter



5.2. EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.

When the Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera's suffix.
Then, confirm and/or adjust the VTR and Camera section one by one.

5.3. SERVICE EXTENSION CABLES.

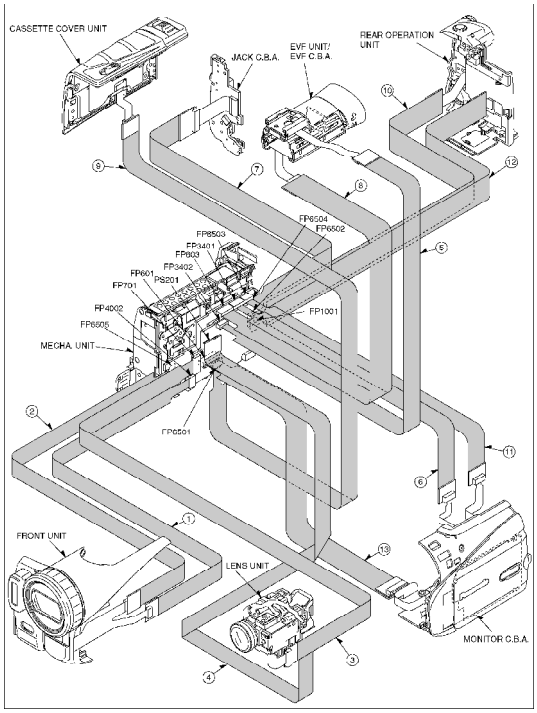
This models is required the following extension cables for all connections.

Note 1:
Use the following extension cables when checking or adjusting individual circuit boards except module Parts.
(Main C.B.A. and Sub C.B.A.)

Ref.	Part No.	Pin	Part Name	Connection	Q'ty	Remarks
(1)	VFK1440	10	Flat Cable	FP4002 (SUB) - FP4801(FRONT)	1	GS200 Only
(2)	VFK1442	21	Flat Cable	FP6505 (MAIN) - FP4801(FRONT)	1	
(3)	VFK1575C3320	33	Flat Cable	FP701 (SUB) - LENS	1	
(4)	VFK1453	40	Flat Cable	PS201 (SUB) - PP201(PRISM U)	1	
(5)	VFK1440	10	Flat Cable	FP3402 (SUB) - HOT SHOE	1	
(6)	VFK1440	10	Flat Cable	FP3401 (MAIN) - SD HOLDER	1	
(7)	VFK1575C3320	33	Flat Cable	FP6504 (MAIN) - FP6201(JACK)	1	
(8)	VFK1443	18	Flat Cable	FP603 (MAIN) - FP801(EVF)	1	
(9)	VFK1442	21	Flat Cable	FP6501 (MAIN) - FP6301(SIDE L)	1	
(10)	VFK1173	14	Flat Cable	FP6502 (MAIN) - REAR OP.	1	
(11)	VFK1440	10	Flat Cable	FP6503 (MAIN) - VTR OP.	1	
(12)	VFK1173	14	Flat Cable	FP1001 (MAIN) - BATTRY CATCHER	1	
(13)	VFK1492	26	Flat Cable	FP601 (MAIN) - FP902(MONITOR)	1	

How to use extension cables.

Fig. T1



5.4. LOCATION FOR SPARE CONNECTORS OF THE MAIN C.B.A. & SUB C.B.A.

5.4.1. MAIN C.B.A.

5.4.2. SUB C.B.A. (NV-GS120 ONLY)

5.4.3. SUB C.B.A. (NV-GS200 ONLY)

6. ELECTRICAL ADJUSTMENT PROCEDURES

6.1. COMPUTER ASSISTED ADJUSTMENT SYSTEM < TATSUJIN > ADJUSTMENT.

This unit employs the computer assisted system named; "TATSUJIN PC-Adjustment" for Electrical adjustment.

6.2. SET-UP MANUAL FOR DV-Camcorder.

1. SAVE THE SOFTWARE

Install the effective model's TATSUJIN Software to PC: Personal Computer.

2. SET-UP (CONNECTION)

A. Remove the EVR cover of the DV Camcorder.

Unlock the locking tab and remove the EVR cover as shown in Fig. E1.

B. Make a connection.

Connect the PC, the PC/IF Unit and the DV Camcorder as shown in Fig.E2 and E3.

C. Check the SW position on Measuning Board.

The position of SW on Measuning Board checks as shown in Fig. E4.

Fig. E1

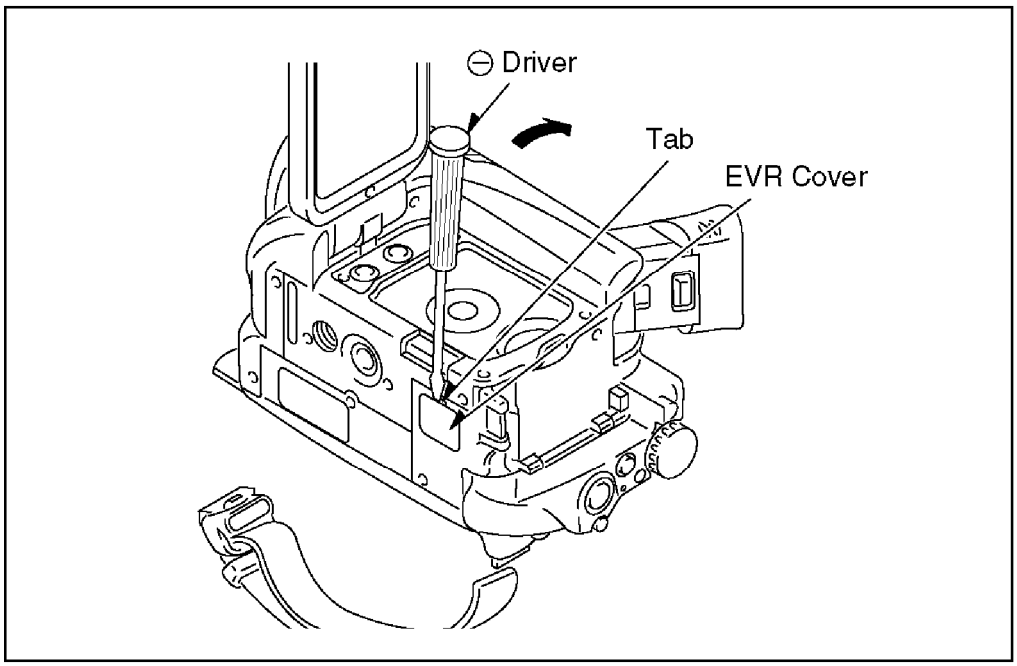


Fig. E2 Necessary Equipment & Tools for Connection.

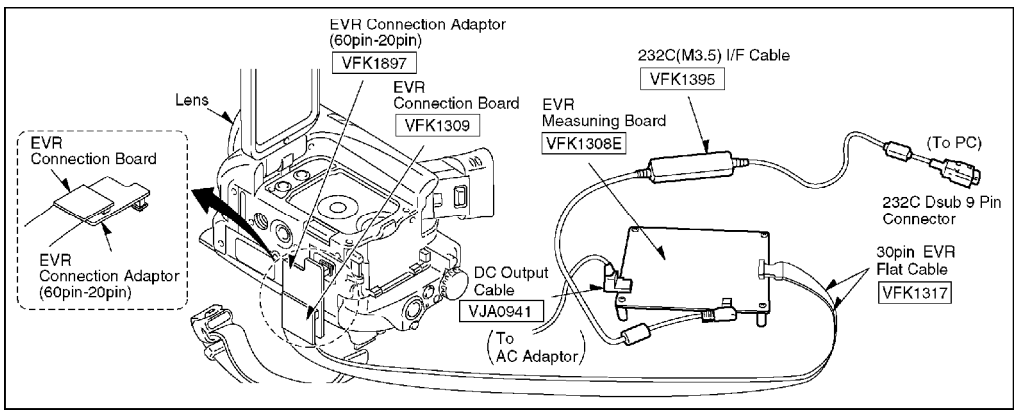
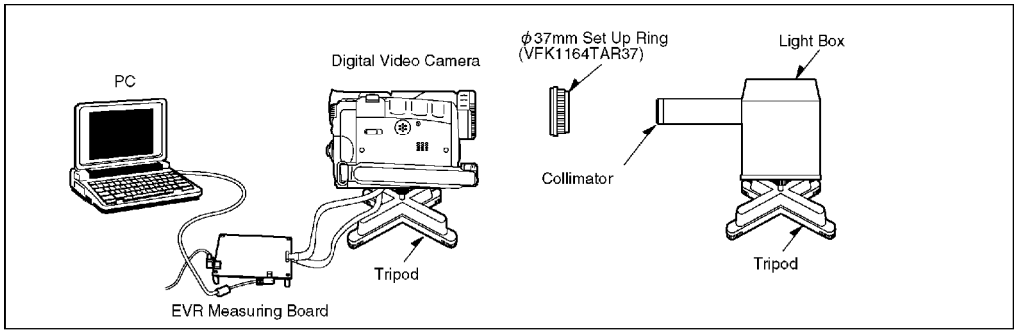
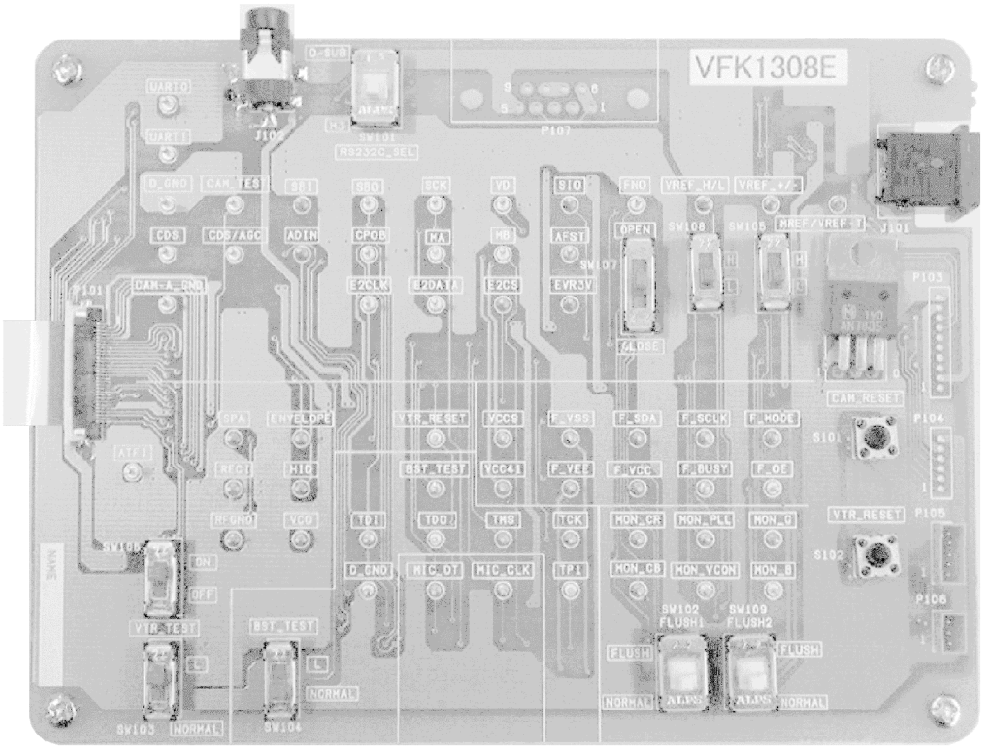


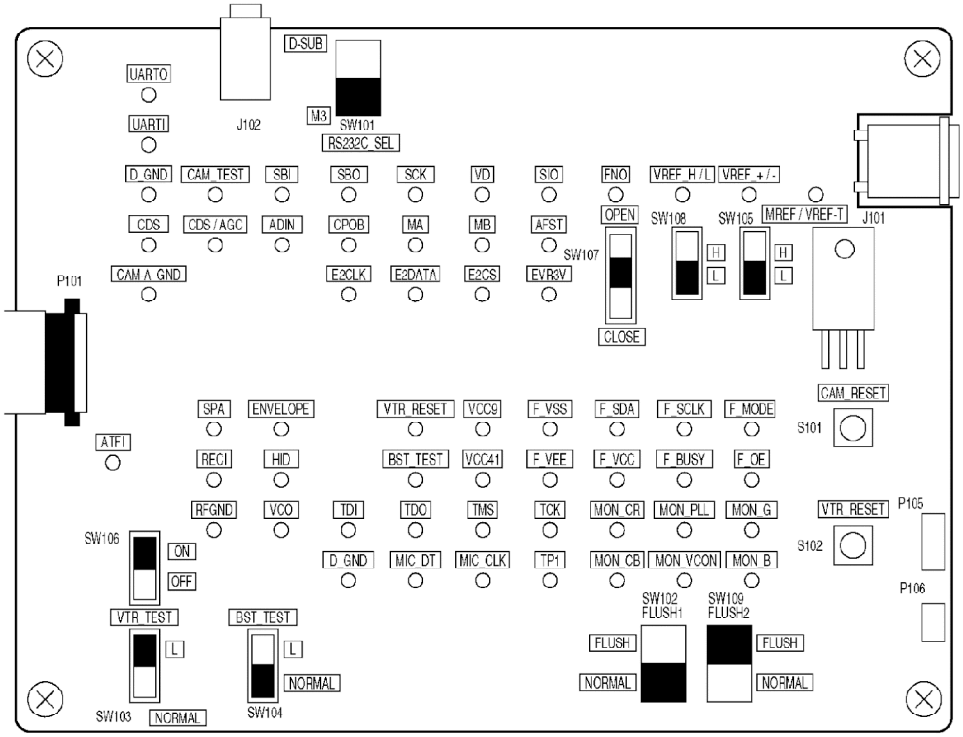
Fig. E3 Rough image of set-up connection



Ref	Name	Parts No.	Q'ty	Remarks
1	DV Camcorder	---	1	The Camcorder being adjusted.
2	Personnel Computer	---	1	With Tatsujin Software.
3	AC Adaptor	---	2	The AC Adaptor for DV Camcorder. The AC Adaptor for M. Board.
4	DC output Cable	--- VJA0941	2	The AC Adaptor for DV Camcorder. The AC Adaptor for M. Board.
5	232C (M3.5) I/F Cable	VFK1395	1	
6	Measuring Board	VFK1308E	1	
7	30 pin Flat Cable	VFK1317	2	
8	Step Up Ring	VFK1164TAR37	1	For Collimator 37mm
9	Connection Board	VFK1309	1	
10	Connection Adaptor (60-20pin)	VFK1897	1	
11	TATSUJIN PC-Adjustment Program	VF0D2003AV30	1	

Fig. E4





(Extension cables (VFK1317 × 2pcs) ----- Measuring Board (VFK1308E) ----- 232C I/F Cable (VFK1395))

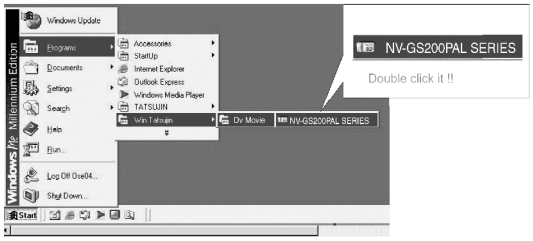
6.3. SET UP PC-EVR ADJUSTMENT PROGRAM

1. Turn on the PC and install the TATSUJIN Adjustment Program into

the PC.

2. TATSUJIN PC-Adjustment Program start in the following procedure.
PC Menu : [Start] → [Program] → [win Tatsujin] → [DV Movie] → [PV-GS200PAL Series]

Fig. E5-1

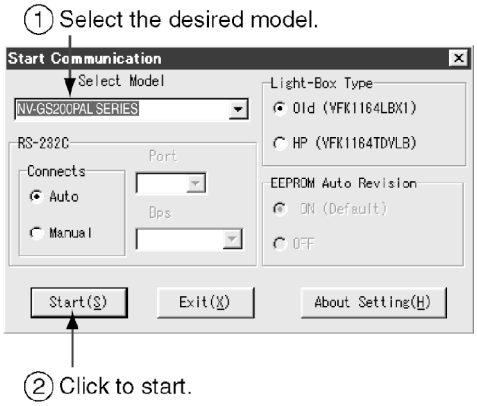


The main menu display will be displayed.

3. Select the desired model.

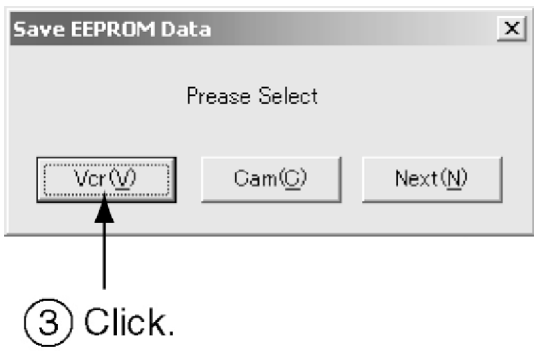
4. Turn on the camcorder. Then, click “Start.”

Fig. E5-2



5. The communication is complete, and the dialog will appear. Then, click “VCR (V) or Cam (C)” to save the EEPROM data,

Fig. E5-3



6. Saving for EEPROM data is complete, menu will appear.

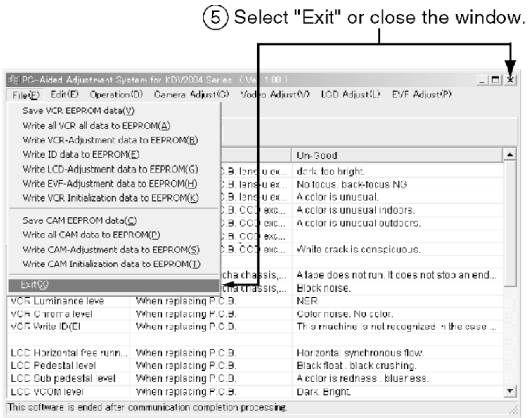
To perform each adjustment, display the adjustment menu by selecting the desired menu from “Camera Adjust,” “Video Adjust,” “LCD Adjust” or “EVF Adjust” and select each adjustmentitem.

Fig. E5-4

Note:
The adjustment data is stored to the EEPROM IC after each adjustment.

7. After adjustment, to end the software, select “Exit” in File menu or close the window.

Fig. E5-6



6.4. INITIAL GUIDELINE

The table below shows which adjustments are necessary according to the unit parts and individual parts to be replaced.
Make sure to perform these adjustments shown below as necessary.

Adjustment Item \ Replacement Parts		SUB C.B.A.	MAIN C.B.A.	IC307 (EEPROM)	IC2006 (EEPROM)	LENS UNIT	Prism UNIT	Iris UNIT	4ht Moving Frame UNIT	CYLINDER UNIT	MAIN CHASSIS UNIT	LCD Panel	EVF C.B.A.	
Camera	CAM hole amplifier / Iris PWM / ND hole amplifier / ND Iris PWM	○		○		○	○	○						
	CAM Tracking and De-focus	○		○	○	○	○	○	○					
	CAM Revision CCD scratch	○		○			○							
	CAM ALC adjustment	○		○		○	○	○						
	CAM AWB adjustment	○		○			○							
Video	VCR Sensitivity ADJ. of Tape sensors		○		○						○			
	VCR PG shifter adjustment		○		○					○	○			
	VCR Luminance level		○		○									
	VCR Chroma level		○		○									
LCD	LCD Contrast		○		○							○		
	LCD Pedestal level		○		○							○		
	LCD PLL		○		○							○		
	LCD COM bias		○		○							○		
	LCD COM level		○		○							○		
	LCD White balance		○		○							○		
EVF	LED Rank Adjustment		○		○								○	

Note : ○ : Adjustment Item

7. MECHANICAL ADJUSTMENT PROCEDURES

7.1. ADJUSTMENT ITEM

Item	Adjustment at the time of the part exchange		
	Half finished goods mechanism	Clyinder	Remarks
Linearlty adjustment& BER value confirmation	○	○	

7.2. ADJUSTMENT PROCEDURES

● **Linearlty adjustment & BER value confirmation**

1. Remove the mechanism adjustment cover of tis machine as shown in Fig. D1.
2. The spcial tool at the time of electricity adjustment is connected. Reference of the connection figure of electricity adjustment.
3. The enbelope detection spcial tool board (VFK1641) is connected to EVR adjustment board as shown in Fig. D2.
4. The enbelope detection spcial tool board is connected to oscilloscope as shown in Fig. D2.
5. The post is adjusted with the post driver(VFK1899) so that recycles the normal tape which recorded NTSC signal and the detection wave-link become a flat as shown in Fig. D3.
   *At the time of the clyinder unit exchange unnecessary.
6. The post is adjusted with the post driver so that recycles a alignment tape(VFM3110EDS) and the detection wave-link become a flat once again.
7. Recycling the tape that video-taped it wirh this machine after adjustment, the BER value is confirmed withthe item of the BER the item of the BER confirmation of expert soft inside.

Fig. D1

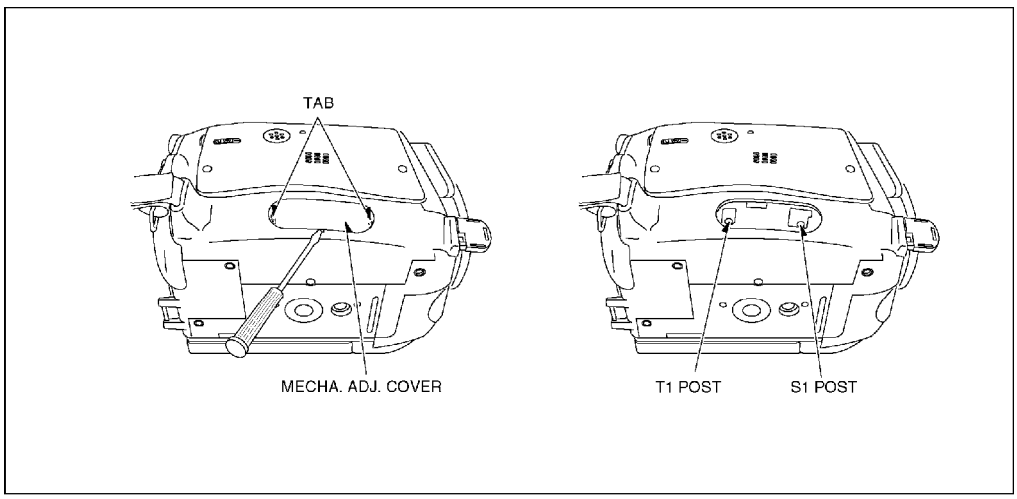


Fig. D2

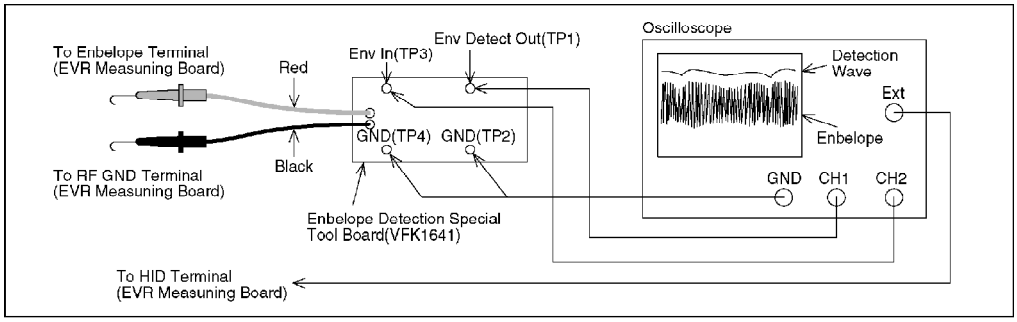
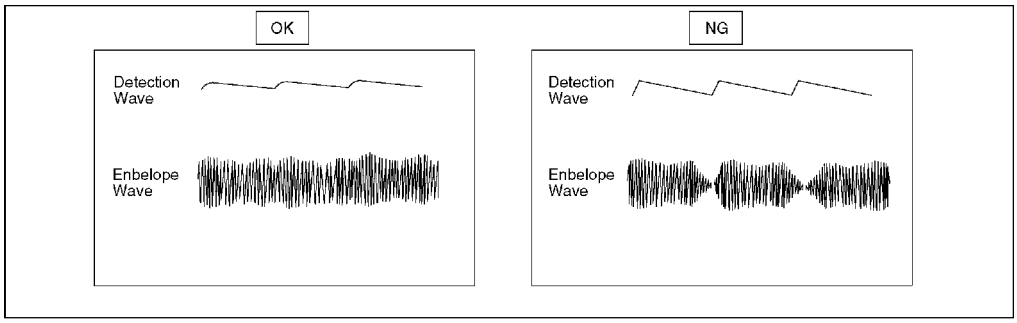


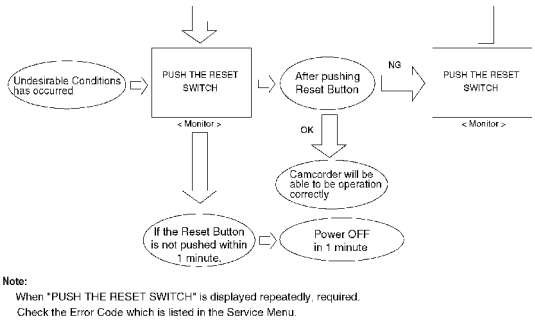
Fig. D3



8. SERVICE MODE

8.1. ERROR DISPLAY

“PUSH THE RESET SWITCH” is displayed automatically on the EVF or the LCD Monitor when an undesirable condition has occured.



8.2. SERVICE MENU

When abnormal detection contents are confirmed a When I do the following operation automatic diagnosis cord is displayed. (Service mode)
This function displays the following items in the Service Menu.

- *1 ... Mechanism lock code record
The current lock code, the last lock code and the lock code before last are displayed.

- *2 ... Lens motor lock code record
The current lock code, the last lock code and the lock code before

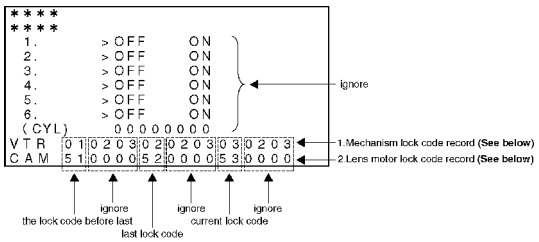
last are displayed.

Making the mode dial of This Machine a pc connection mode push [BACK LIGHT] button and [REW ◀◀] button and [PHOTO SHOT] button simultaneously for 3 seconds with no SD Card inserted.
The Service Menu will be displayed.

NOTE:
In the case that a tape is included the above operation does not work.

Self diagnosis cord contents are as follows

Display position → Cord specification



Display contents(Self diagnosis cord contents)

Mechanism & Lens motor lock code

DISPLAY	CONDITION
01	T-REEL LOCK
02	S-REEL LOCK
03	UNLOADING LOCK
04	LOADING LOCK
05	SYLINDER
51	ZOOMMOTOR LOCK
52	FOCUSMOTOR LOCK

Turn off the power supply after confirmation,
Please do the error cord backup record the clear after repair completion.

CLEAR METHOD
Making the mode dial of This Machine a pc connection mode push [BACK LIGHT] button and [REW ◀◀] button and [RECORDING START/STOP] button simultaneously for 3 seconds (with noSD Card inserted).

NOTE:

1. When an Error Display “PUSH THE RESET SWITCH” on the monitor, it is not necessary to push the MENU button to enter the

Service Menu.

2. Do not operate items 1 ~ 6 and “(CYL)“ in the Service Menu.
3. To exit the Service Menu, unplug the AC Cord.

9. WAVEFORM TABLE

10. SCHEMATIC DIAGRAM

10.1. OVERALL SCHEMATIC DIAGRAM

10.2. INTERCONNECTION SCHEMATIC DIAGRAM

10.3. SIDE (L) SCHEMATIC DIAGRAM

10.4. CASSETTE COVER UNIT SCHEMATIC DIAGRAM

10.5. REAR OPERATION SCHEMATIC DIAGRAM

10.6. SIDE (R) / R RELAY / LCD DET / SD OPEN SCHEMATIC DIAGRAM

10.7. SIDE (R) VTR OPERATION UNIT SCHEMATIC DIAGRAM

10.8. MF SENSOR SCHEMATIC DIAGRAM (NV-GS200SERIES ONLY)

10.9. EVF SCHEMATIC DIAGRAM

10.10. PL FLEX. CARD SCHEMATIC DIAGRAM

10.11. SD HOLDER SCHEMATIC DIAGRAM

10.12. CCD FLEX. CARD SCHEMATIC DIAGRAM

10.13. FRONT / FLASH SW FLEX. CARD SCHEMATIC DIAGRAM

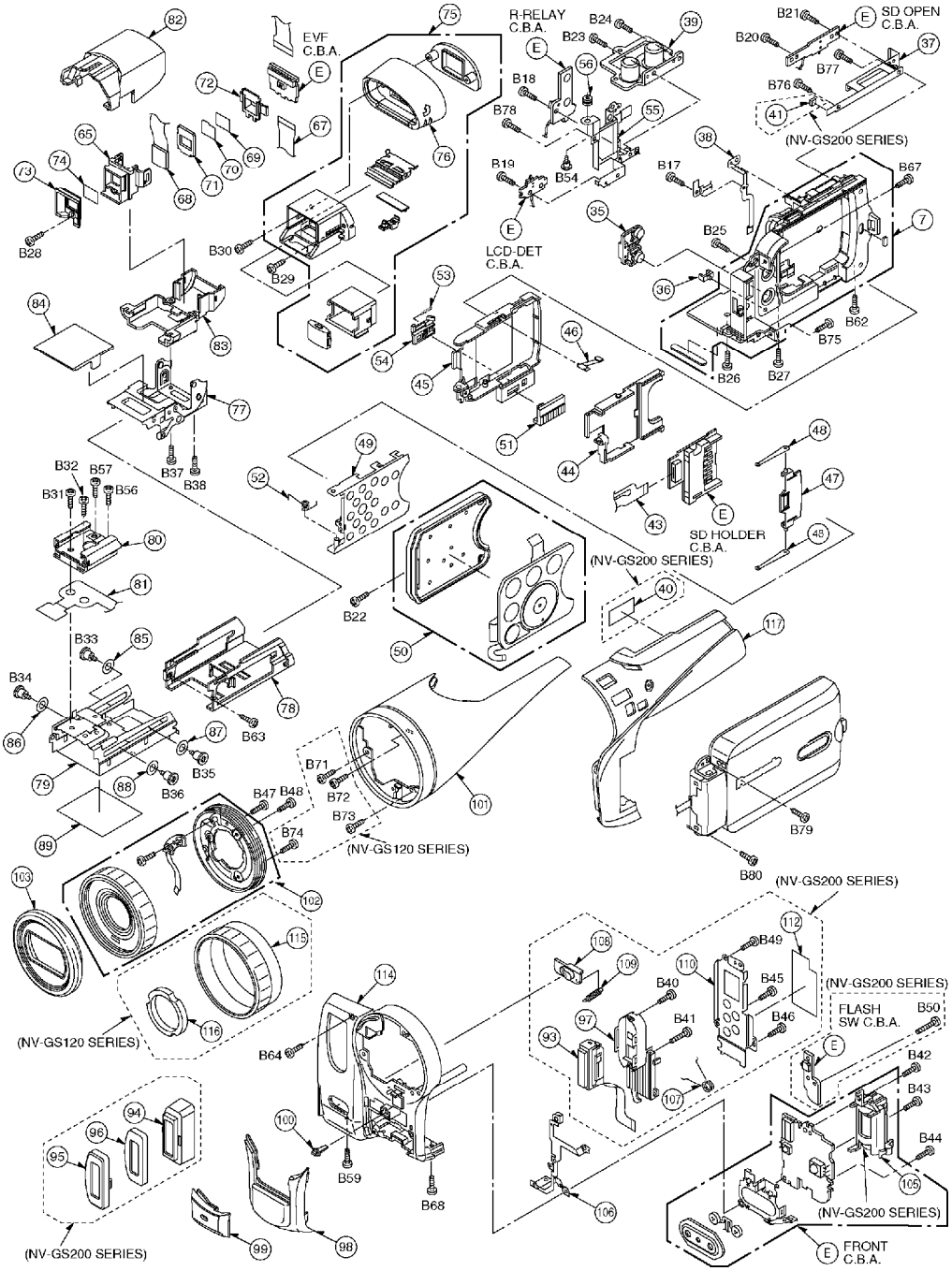
10.14. JACK SCHEMATIC DIAGRAM

10.15. MONITOR SCHEMATIC DIAGRAM (NV-GS120SERIES ONLY)

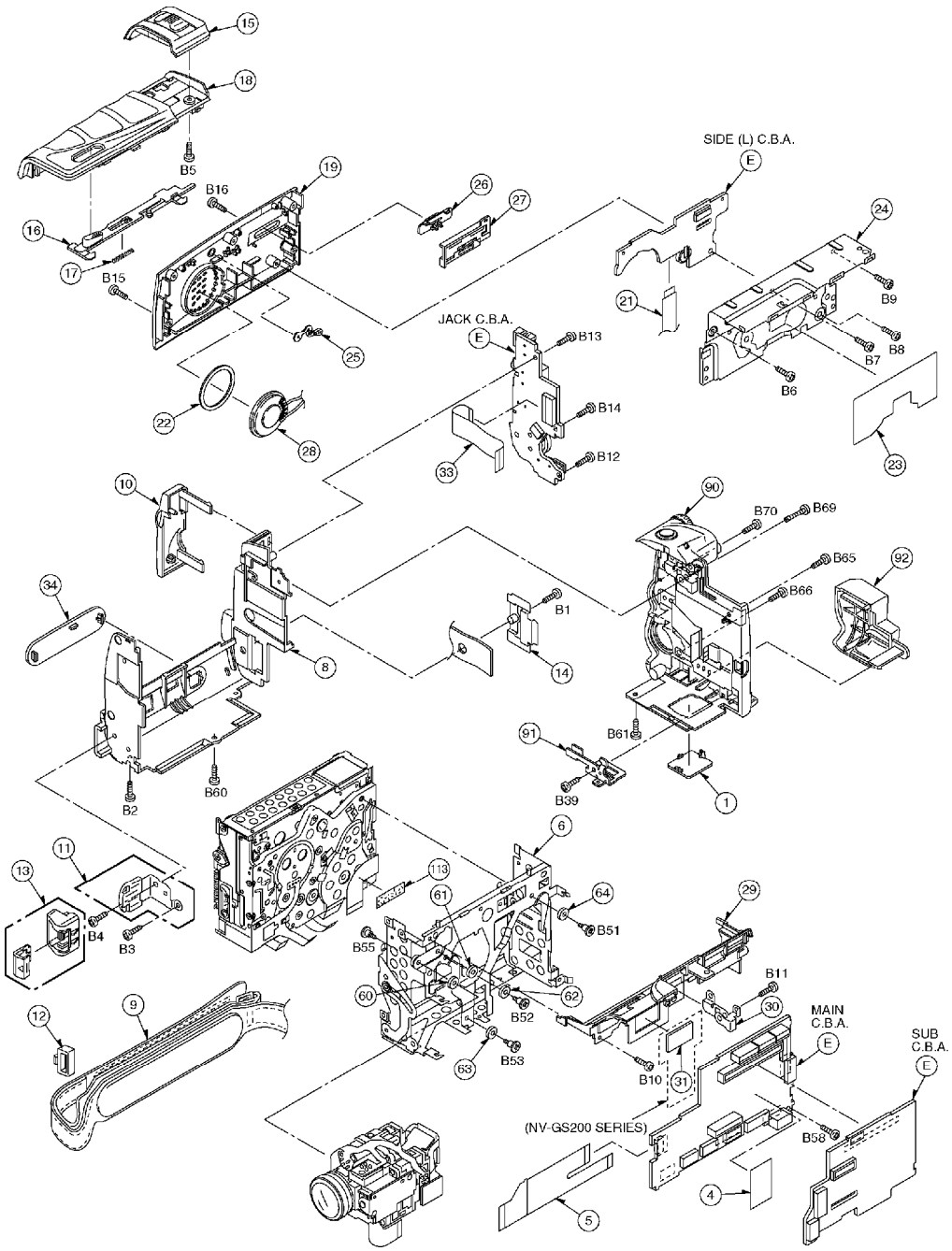
10.16. MONITOR SCHEMATIC DIAGRAM (NV-GS200SERIES ONLY)

11. CIRCUIT BOARD ASSEMBLIES

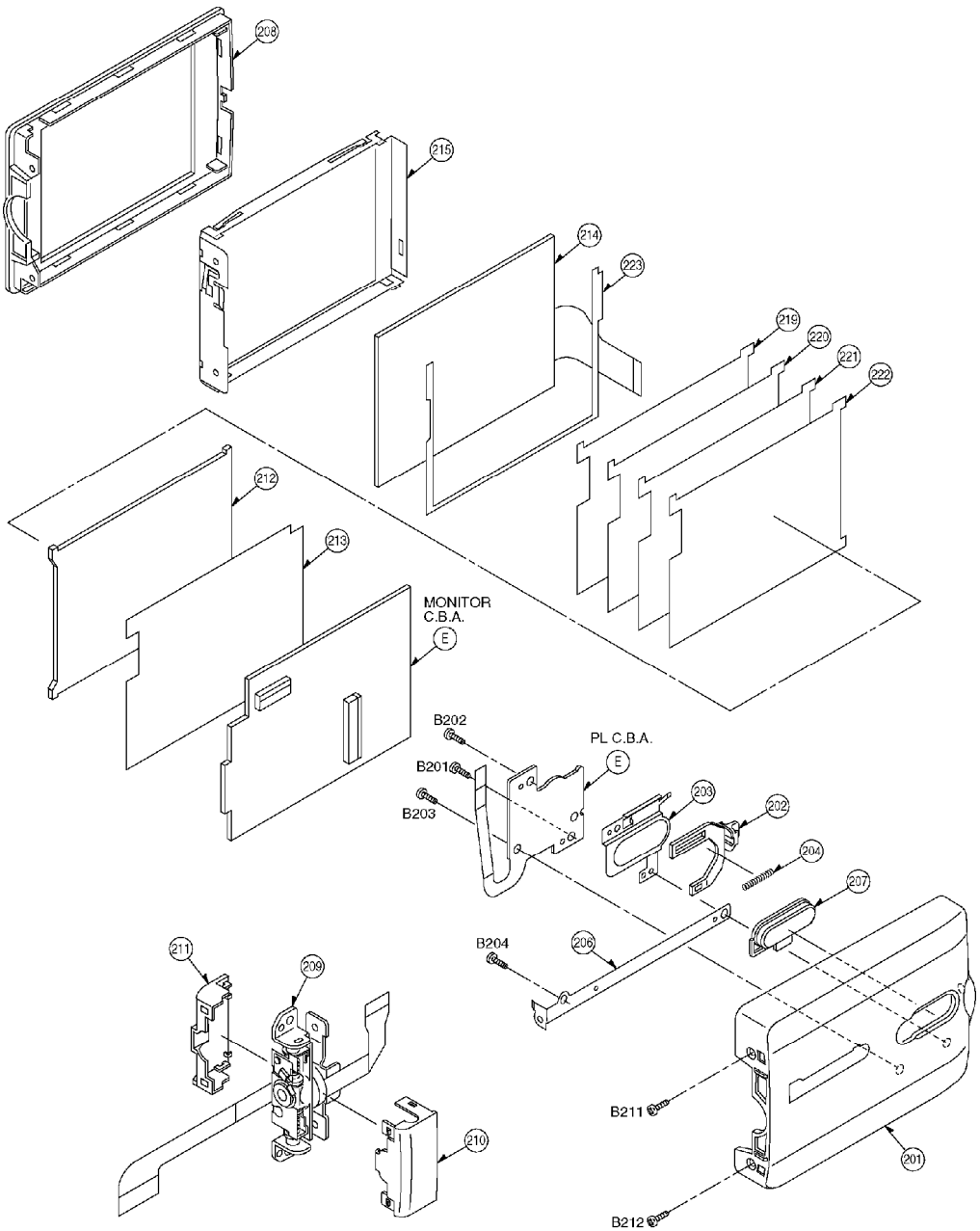
11.1. SIDE (L) C.B.A.
11.2. EVF C.B.A.
11.3. FLASH SW C.B.A. (NV-GS200SERIES ONLY)
11.4. SD OPEN C.B.A.
11.5. SIDE (R) (LCD DET) C.B.A.
11.6. SIDE (R) (R RELAY) C.B.A.
11.7. SD HOLDER C.B.A.
11.8. JACK C.B.A.
11.9. CCD FLEX. CARD C.B.A.
11.10. FRONT C.B.A.
11.11. MONITOR C.B.A. (NV-GS120SERIES ONLY)
11.12. MONITOR C.B.A. (NV-GS200SERIES ONLY)
12. EXPLODED VIEWS
12.1. FRAME & CASING SECTION (1)



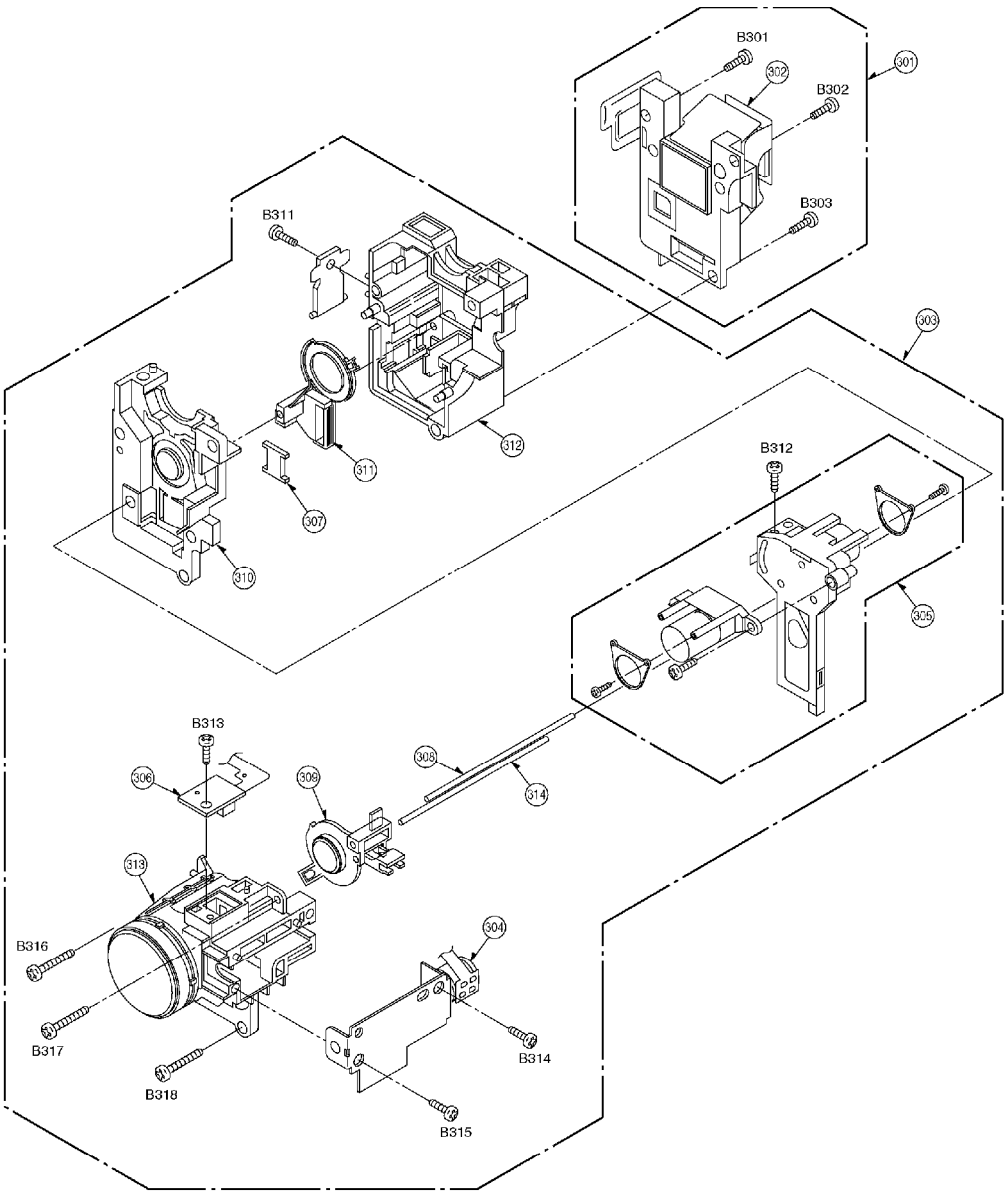
12.2. FRAME & CASING SECTION (2)



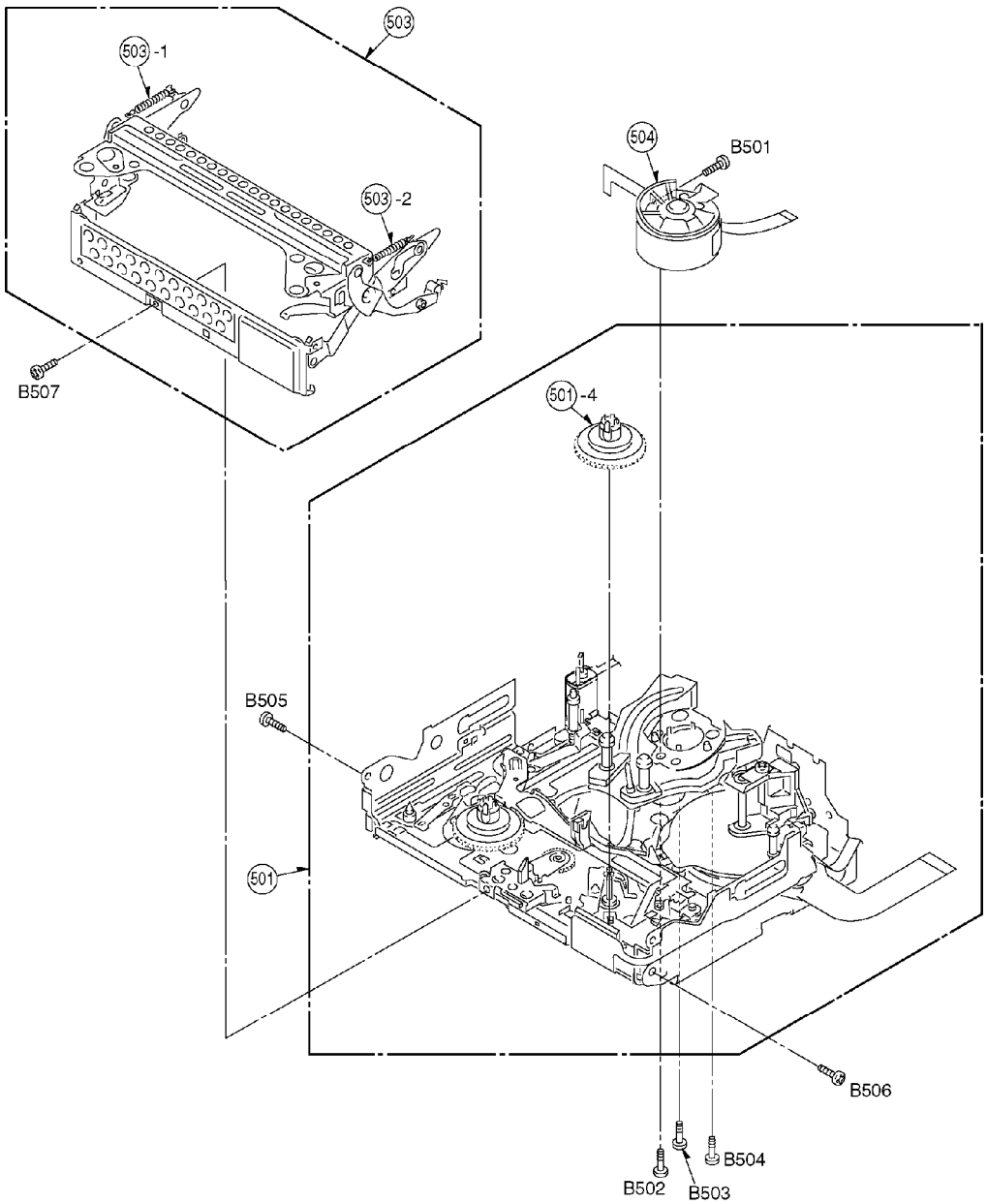
12.3. LCD SECTION



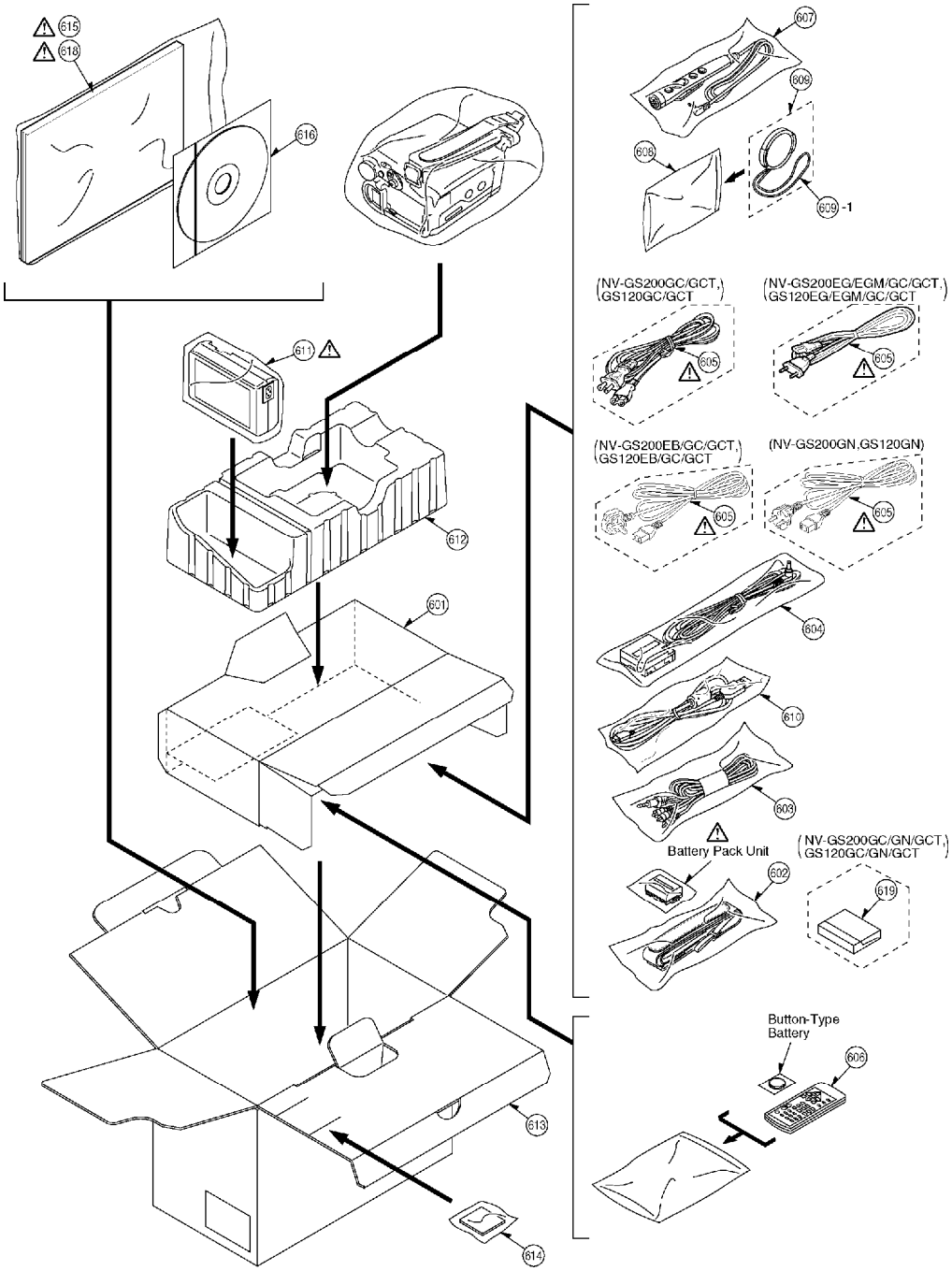
12.4. CAMERA LENS SECTION



12.5. VCR MECHANISM SECTION



12.6. PACKING PARTS & ACCESSORIES SECTION



13. REPLACEMENT PARTS LIST

13.1. FRAME & CASING SECTION (1), (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VKF3861	EVR COVER	1	
4	VGQ7730	INSULATION SHEET	1	
5	VWJ1696	FRONT	FPC	1
5	VWJ1708	FRONT	FPC	1
6	VYK1D22	MECHA. FRAME U.	1	
7	VYK1H80	R BASE U	1	NV-GS200EG,EGM,EB,GC,GCT,GN
				NV-GS120GC,GCT,GN
7	VYK1H81	R BASE U	1	NV-GS120EG,EGM,EB
8	VKM6471	SIDE CASE L	1	NV-GS200EG,EGM,EB,GC,GCT,GN
				NV-GS120GC,GCT,GN
8	VKM6476	SIDE CASE L	1	NV-GS120EG,EGM,EB
9	VYC0910	GRIP BELT U.	1	
10	VKF3859	JACK COVER (L)	1	
11	VYK1D23	GRIP BELT ANGLE (L) U.	1	
12	VGQ7161	GRIP BELT PIECE	1	
13	VKF3767	LOCK PIECE COVER	1	
14	VMP7922	GRIP BELT ANGLE (REAR)	1	
15	N9ZZ00000241	ZOOM OP U.	1	
16	VML3855	CASSETTE LOCK LEVER	1	
17	VMB3856	CASSETTE LOCK SPRING	1	
18	VKM6472	CASETTE COVER (TOP)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
18	VKM6478	CASETTE COVER (TOP)	1	NV-GS120EG,EGM,EB,GC,GCT,GN
19	VKM6473	CASETTE COVER (SIDE)	1	
21	VWJ1697	SIDE	L FPC	1
22	VGQ5908	SPEAKER SHEET	1	
23	VGQ7701	SHEET	1	
24	VMP7883	CASSETTE PLATE	1	
25	VGU9307	RESET BUTTON	1	
26	VGU9572	MODE SELECT KNOB	1	
27	VGU9573	KNOB HOLDER	1	
28	L0AA02A00036	SPEAKER U.	1	
29	VKM6412	TOP CASE	1	
30	VSC5564	CASE (L) EARTH ANGLE	1	
31	VGQ7923	HEATING SHEET	1	NV-GS200EG,EGM,EB,GC,GCT,GN
33	VWJ1704	JACK	FPC	1
34	VKF3862	MECHA. ADJ. COVER	1	
35	VGU9570	REC BUTTON	1	
36	VGL0849	POWER PANEL LIGHT	1	
37	VMP7917	REAR HOLD PLATE	1	
38	VSC5571	SD EARTH PLATE	1	
39	VMP7916	TRIPOD PLATE	1	
40	VMP7918	HEAT DISSIPATION PLATE	1	NV-GS200EG,EGM,EB,GC,GCT,GN
41	VGQ7922	SR PORON	1	NV-GS200EG,EGM,EB,GC,GCT,GN
43	VWJ1700	SD	FPC	1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
44	VGQ7803	SD HOLDER PIECE	1	
45	VGQ7804	SD HOLDER BASE	1	
46	VMC1851	SD DETECT SW SPRING	1	
47	VGQ7218	SD SLIDE COVER	1	
48	VMP7635	SD SLIDE LINK	2	
49	VXA7799	SD SUPPORT PLATE U.	1	
50	VYK1J12	SD DOOR U.	1	
51	VGU9571	SD OPEN KNOB	1	
52	VMB3868	SD DOOR SPRING	1	
53	VMB3755	SD OPEN KNOB SPRING	1	
54	VGQ7805	SD LOCK PIECE	1	
55	VMP7915	HINGE SUPPORT PLATE	1	
56	VMG1107	DUMPER RUBBER	1	
60	VMG1107	DUMPER RUBBER	1	
61	VMG1107	DUMPER RUBBER	1	
62	VMG1107	DUMPER RUBBER	1	
63	VMG1107	DUMPER RUBBER	1	
64	VMG1107	DUMPER RUBBER	1	
65	VGQ7782	LCD HOLDER	1	
67	VWJ1699	EVF FPC	1	
68	L5BDDXH00016	LCD PANEL	1	
69	VGL1088	BL DIFFUSION SHEET	1	
70	VGL1089	BL PRISM SHEET	1	
71	VGQ7785	LCD PIECE	1	
72	VGQ7784	BL PIECE	1	
73	VGQ7783	LENS PRISM SHEET HOLD	1	
74	VGL1090	LENS PRISM SHEET	1	
75	VYK1D11	EVF VIEW ADJ. U.	1	
76	VMG1600	EYE CAP	1	
77	VYK1D09	EVF HINGE U.	1	
78	VGQ7780	SLIDE FRAME	1	
79	VMC1898	EVF SUPPORT PLATE	1	
80	K1FB108H0014	HOT SHOE	1	
81	VWJ1698	HOT SHOE FLEX.	1	
82	VKM6470	EVF CASE (UPPER)	1	
83	VKM6403	EVF CASE (LOWER)	1	
84	VGQ7788	SLIDE MASK PIECE	1	
85	VGQ7249	SLIDE SPACER	1	
86	VGQ7249	SLIDE SPACER	1	
87	VGQ7249	SLIDE SPACER	1	
88	VGQ7249	SLIDE SPACER	1	
89	VGQ7909	TAPE	1	
90	N9ZZ00000243	REAR OPERATION U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
90	N9ZZ00000246	REAR OPERATION U.	1	NV-GS120EG,EGM,EB
90	N9ZZ00000253	REAR OPERATION U.	1	NV-GS120GC,GCT,GN
91	VMP7923	SHOULDER BELT ANGLE	1	
92	VKF3860	REAR JACK COVER	1	
93	EFN-MVS34	FLASH FLEX. U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
94	VGQ7793	FL CASE (FRONT)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
95	VGQ7794	FL CASE	1	NV-GS200EG,EGM,EB,GC,GCT,GN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
96	VGQ7795	FL CASE (INSIDE)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
97	VGQ7796	FL CASE (REAR)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
98	VYK1D14	FRONT CASE U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
98	VYK1E21	FRONT CASE U.	1	NV-GS120EG,EGM,EB,GC,GCT,GN
99	VKW3179	SENSOR WINDOW	1	
100	VGL1091	TALLY PANEL LIGHT	1	
101	VGK2996	LENS CASE	1	NV-GS200EG,EGM,EB,GC,GCT,GN
101	VGK3002	LENS CASE	1	NV-GS120EG,EGM,EB,GC,GCT,GN
102	VYK1D16	MF U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
102	VDW0911Q	MF COVER	1	NV-GS120EG,EGM,EB,GC,GCT,GN
103	VYK1D17	LENS HOOD U.	1	
105	VGQ7792	CAPACITOR HOLDER	1	NV-GS200EG,EGM,EB,GC,GCT,GN
106	VMP7911	FRONT EARTH PLATE	1	
107	VMB3751	FL HOP UP SPRING	1	NV-GS200EG,EGM,EB,GC,GCT,GN
108	VGU9568	FL LOCK KNOB	1	NV-GS200EG,EGM,EB,GC,GCT,GN
109	VMB3752	FL LOCK KNOB SPRING	1	NV-GS200EG,EGM,EB,GC,GCT,GN
110	VMP7912	FL GUIDE ANGLE	1	NV-GS200EG,EGM,EB,GC,GCT,GN
112	VGQ8067	FL BARRIER	1	NV-GS200EG,EGM,EB,GC,GCT,GN
113	VGQ6407	TAPE	1	
114	VKM6404	FRONT CASE	1	NV-GS200EG,EGM,EB,GC,GCT,GN
114	VKM6453	FRONT CASE	1	NV-GS120EG,EGM,EB,GC,GCT,GN
115	VGK2992	LENS CASE RING	1	NV-GS120EG,EGM,EB,GC,GCT,GN
116	VMG1527	LENS DUMPER RUBBER	1	NV-GS120EG,EGM,EB,GC,GCT,GN
117	VKM6408	R COVER-2	1	NV-GS200EG,EGM,EB,GC,GCT,GN
117	VKM6475	R COVER	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B1	VHD1658	SCREW	1	
B2	XQN16+B2FN	SCREW	1	
B3	XQN16+B2FN	SCREW	1	
B4	XQN16+B4FZ	SCREW	1	
B5	XQN16+BJ4FN	SCREW	1	
B6	XQN16+BJ4FN	SCREW	1	
B7	XQN16+BJ4FN	SCREW	1	
B8	XQN16+BJ4FN	SCREW	1	
B9	XQN16+BJ4FN	SCREW	1	
B10	XQN16+B2FN	SCREW	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
B11	XQN16+B3FZ	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
				NV-GS120EG,EGM,EB
B11	XQN16+B3FN	SCREW	1	NV-GS120GC,GCT,GN
B12	XQN16+B3FZ	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
				NV-GS120EG,EGM,EB
B12	XQN16+B3FN	SCREW	1	NV-GS120GC,GCT,GN
B13	XQN16+BJ4FN	SCREW	1	
B14	XQN16+BJ4FN	SCREW	1	
B15	VHD1601	SCREW	1	
B16	VHD1601	SCREW	1	
B17	XQN16+B2FN	SCREW	1	
B18	XQN16+B3FZ	SCREW	1	
B19	XQN16+B3FZ	SCREW	1	
B20	XQN16+BJ4FN	SCREW	1	
B21	XQN16+BJ4FN	SCREW	1	
B22	XQN16+BJ4FN	SCREW	1	
B23	XQN16+BJ5FZ	SCREW	1	
B24	XQN16+BJ5FZ	SCREW	1	
B25	XQN16+BJ4FN	SCREW	1	
B26	XQN16+B3FZ	SCREW	1	
B27	XQN16+B3FZ	SCREW	1	
B28	XQN16+BJ4FZ	SCREW	1	
B29	XQN16+BJ5FZ	SCREW	1	
B30	XQN16+BJ5FZ	SCREW	1	
B31	XQS2+A25FN	SCREW	1	
B32	XQS2+A25FN	SCREW	1	
B33	VHD1606	SCREW	1	
B34	VHD1606	SCREW	1	
B35	VHD1606	SCREW	1	
B36	VHD1606	SCREW	1	
B37	XQN16+BJ8FN	SCREW	1	
B38	XQN16+BJ8FN	SCREW	1	
B39	XQN16+BJ5FZ	SCREW	1	
B40	XQN16+BJ6FZ	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B41	XQN16+BJ10FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B42	XQS16+AJ4FZ	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B42	XQN16+BJ35FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B43	XQN16+BJ35FN	SCREW	1	
B44	XQN16+BJ35FN	SCREW	1	
B45	XQN16+BJ35FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B46	XQN16+BJ35FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B47	XQN16+BJ5FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
B47	XQN16+BJ3FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B48	XQN16+BJ5FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B48	XQN16+BJ3FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B49	XQN16+BJ5FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B50	XQN16+BJ8FN	SCREW	1	NV-GS200EG,EGM,EB,GC,GCT,GN
B51	VHD1133	SCREW	1	
B52	VHD1133	SCREW	1	
B53	VHD1133	SCREW	1	
B54	VHD1353	SCREW	1	
B55	VHD1353	SCREW	1	
B56	VHD1526	SCREW	1	
B57	VHD1526	SCREW	1	
B58	XQN16+B3FZ	SCREW	1	
B59	XQN16+B3FZ	SCREW	1	
B60	XQN16+B3FZ	SCREW	1	
B61	XQN16+B3FZ	SCREW	1	
B62	XQN16+B3FZ	SCREW	1	
B63	XQN16+B5FZ	SCREW	1	
B64	XQN16+B5FZ	SCREW	1	
B65	XQN16+B5FZ	SCREW	1	
B66	XQN16+B5FZ	SCREW	1	
B67	XQN16+BJ4FN	SCREW	1	
B68	XQN16+BJ6FZ	SCREW	1	
B69	XQN16+BJ8FZ	SCREW	1	
B70	XQN16+BJ8FZ	SCREW	1	
B71	XQN16+BJ4FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B72	XQN16+BJ4FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B73	XQN16+BJ4FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B74	XQN16+BJ3FN	SCREW	1	NV-GS120EG,EGM,EB,GC,GCT,GN
B75	XQN16+BJ4FN	SCREW	1	
B76	XQN16+BJ3	SCREW	1	
B77	XQN16+BJ3	SCREW	1	
B78	XQN16+BJ3	SCREW	1	
B79	VHD1411	SCREW	1	
B80	VHD1411	SCREW	1	

13.2. LCD SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
201	VYK1E91	LCD CASE (UPPER)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
201	VYK1F13	LCD CASE (UPPER)	1	NV-GS120EG,EGM,EB,GC,GCT,GN
202	VGQ7799	LCD LOCK PIECE	1	
203	VMP7914	LCD LOCK PLATE	1	
204	VMB3600	LCD LOCK SPRING	1	
206	VSC5605	LCD EARTH PLATE	1	
207	VYK1H84	BL BUTTON U.	1	
208	VKM6406	LCD CASE (LOWER)	1	NV-GS200EG,EGM,EB,GC,GCT,GN
208	VKM6452	LCD CASE (LOWER)	1	NV-GS120EG,EGM,EB,GC,GCT,GN
209	VXD0421	LCD HINGE (1) U.	1	
210	VGQ7800	HINGE COVER (UPPER)	1	
211	VGQ7801	HINGE COVER (LOWER)	1	
212	VKW3178	POLARIZATION PLATE	1	
213	VGL1081	REFLECTION SHEET	1	
214	L5BDDYH00009	LCD PANEL U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
214	L5BDDYH00004	LCD PANEL U.	1	NV-GS120EG,EGM,EB,GC,GCT,GN
215	VSC5572	LCD SHIELD CASE	1	NV-GS200EG,EGM,EB,GC,GCT,GN
215	VSC5587	LCD SHIELD CASE	1	NV-GS120EG,EGM,EB,GC,GCT,GN
219	VGL1106	DBEF SHEET	1	NV-GS200EG,EGM,EB,GC,GCT,GN
219	VGL1110	DBEF SHEET	1	NV-GS120EG,EGM,EB,GC,GCT,GN
220	VGL1107	PRISM SHEET A	1	NV-GS200EG,EGM,EB,GC,GCT,GN
220	VGL1111	PRISM SHEET A	1	NV-GS120EG,EGM,EB,GC,GCT,GN
221	VGL1108	PRISM SHEET B	1	NV-GS200EG,EGM,EB,GC,GCT,GN
221	VGL1112	PRISM SHEET B	1	NV-GS120EG,EGM,EB,GC,GCT,GN
222	VGL1109	DIFFUSION SHEET	1	
223	VGQ8111	MONITOR SHEET	1	
B201	VHD1303	SCREW	1	
B202	VHD1303	SCREW	1	
B203	VHD1303	SCREW	1	
B204	XQN16+BJ25FN	SCREW	1	
B211	VHD1675	SCREW	1	
B212	VHD1675	SCREW	1	

13.3. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
301	VXQ1213	PRISM U.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
301	VXQ1218	PRISM U.	1	NV-GS120EG,EGM,EB,GC,GCT,GN
302	VEP22349A	CCD FLEX. C.B.A.	1	NV-GS200EG,EGM,EB,GC,GCT,GN
302	VEP22349B	CCD FLEX. C.B.A.	1	NV-GS120EG,EGM,EB,GC,GCT,GN
303	VXW0667	LENS U.	1	
304	L6HA68NC0001	ZOOM MOTOR U.	1	
305	L9ZZ00000198	IRIS U.	1	
306	VEK0G41	LENS FLEX. C.B.A. U.	1	
307	VMA9961	SIDE YOKE	1	
308	VMS7312	GUIDE POLE	1	
309	VXP2357	2ND MOVING FRAME U.	1	
310	VXQ1215	3RD FRAME U.	1	
311	VXP2359	4TH MOVING FRAME U.	1	
312	VXQ1216	MASTER FLANGE U.	1	
313	VXQ1214	MAIN FRAME U.	1	
314	VMS7312	GUIDE POLE	1	
B301	XQN16+CJ5	SCREW	1	
B302	XQN16+CJ5	SCREW	1	
B303	XQN16+CJ5	SCREW	1	
B311	XQN16+CJ5	SCREW	1	
B312	XQN16+CJ5	SCREW	1	
B313	XQN16+CJ5	SCREW	1	
B314	VHD1508	SCREW	1	
B315	VHD1508	SCREW	1	
B316	VHD1509	SCREW	1	
B317	VHD1509	SCREW	1	
B318	VHD1509	SCREW	1	

13.4. VCR MECHANISM SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501	VXA7735	MECHA. CHASSIS	1	
501-4	VXR0401	T-REEL MOTOR	1	
503	VXA7624	CASSETTE UP U.	1	
503-1	VMB3766	CASSETTE UP SPRING	1	
503-2	VMB3766	CASSETTE UP SPRING	1	
504	VEG1659	CYLINDER U.	1	
B501	VHD1632	SCREW	1	
B502	VHD1585	SCREW	1	
B503	VHD1585	SCREW	1	
B504	VHD1585	SCREW	1	
B505	XQN14+B2FN	SCREW	1	
B506	XQN14+B2FN	SCREW	1	
B507	XQN14+B1FN	SCREW	1	

13.5. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Supply of CD-ROM, in accordance with license protection, is allowable as replacement parts only for customers who accidentally damaged or lost their own.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
601	VPK2830	ACCESSORIES BOX	1	
602	VFC3506-1A	SHOULDER BELT	1	
603	K2KC4CB00009	AV CABLE	1	
604	K2GJ2DZ00017	DC CABLE	1	
605	RJA0053-3X	AC CORD	1	NV-GS200EB,GC,GCT ⚠
				NV-GS120EB,GC,GCT
605	K2CQ2DA00003	AC CORD	1	NV-GS200EG,EGM,GC,GCT ⚠
				NV-GS120EG,EGM,GC,GCT
605	K2CA2CA00020	AC CORD	1	NV-GS200GC,GCT ⚠
				NV-GS120GC,GCT
605	K2CJ2DA00011	AC CABLE	1	NV-GS200GN ⚠
				NV-GS120GN
606	N2QAGC000018	REMOTE CONTROLLER	1	
607	N2QCBD000030	UNIVERSAL REMOTE CONTROLLER	1	
608	VPF1190	POLYETHYLENE BAG	1	
609	VYF2973	HOOD CAP U.	1	
609-1	VGQ7270	HOOD STRAP	1	
610	VFA0425	USB CABLE	1	
611	VSK0651	AC ADAPTOR U.	1	⚠
612	VPN6152	CUSHION	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
613	VPG0X79	PACKING CASE	1	NV-GS200EG
613	VPG0X80	PACKING CASE	1	NV-GS200EGM
613	VPG0X81	PACKING CASE	1	NV-GS200EB
613	VPG0X82	PACKING CASE	1	NV-GS200GC,GCT,GN
613	VPG0X99	PACKING CASE	1	NV-GS120EG
613	VPG0Y00	PACKING CASE	1	NV-GS120EGM
613	VPG0Y01	PACKING CASE	1	NV-GS120EB
613	VPG0Y02	PACKING CASE	1	NV-GS120GC,GCT,GN
614	VFA0420	SD CARD	1	
615	VQT0H88	OPERATING INSTRUCTIONS	1	NV-GS200EG ⚠
		(GERMAN,FRENCH)	1	NV-GS120EG
615	VQT0H89	OPERATING INSTRUCTIONS	1	NV-GS200EG ⚠
		(ITALIAN, DUTCH)	1	NV-GS120EG
615	VQT0H91	OPERATING INSTRUCTIONS	1	NV-GS200EGM ⚠
		(PORTUGUESE,SPANISH)		NV-GS120EGM
615	VQT0H92	OPERATING INSTRUCTIONS	1	NV-GS200EGM ⚠
		(SWEDISH,DANISH)		NV-GS120EGM
615	VQT0H94	OPERATING INSTRUCTIONS	1	NV-GS200EB ⚠
		(ENGLISH)		NV-GS120EB
615	VQT0H96	OPERATING INSTRUCTIONS	1	NV-GS200GC,GCT ⚠
		(CHINESE,ENGLISH)		NV-GS120GC,GCT
615	VQT0H97	OPERATING INSTRUCTIONS	1	NV-GS200GC,GCT ⚠
		(RUSSIAN,ARABIC)		NV-GS120GC,GCT
615	VQT0H99	OPERATING INSTRUCTIONS	1	NV-GS200GN ⚠
		(ENGLISH)		NV-GS120GN
616	VFF0230-S	CD-ROM	1	See ”Notes”
618	VQT0K86	OPERATING INSTRUCTIONS	1	NV-GS200EG
		FOR PC KIT (CD-ROM)		NV-GS120EG
		(GERMAN,FRENCH,ITALIAN,		
		DUTCH)		
618	VQT0K87	OPERATING INSTRUCTIONS	1	NV-GS200EGM
		FOR PC KIT (CD-ROM)		NV-GS120EGM

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		(PORTUGUESE,SPANISH,		
		SWEDISH,DANISH)		
618	VQT0K88	OPERATING INSTRUCTIONS	1	NV-GS200EB,GN
		FOR PC KIT (CD-ROM)		NV-GS120EB,GN
		(ENGLISH)		
618	VQT0K89	OPERATING INSTRUCTIONS	1	NV-GS200GC,GCT
		FOR PC KIT (CD-ROM)		NV-GS120GC,GCT
		(CHINESE,ENGLISH,RUSSIAN,		
		ARABIC)		
619	VFK1451	DV HEAD CLEANER	1	NV-GS200GC,GCT,GN
				NV-GS120GC,GCT,GN

13.6. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP03G57B	MAIN C.B.A.	1	(RTL) NV-GS200EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP03G57F	MAIN C.B.A.	1	(RTL) NV-GS120EG-S,EGMS,
				EB-S
■	VEP03G57G	MAIN C.B.A.	1	(RTL) NV-GS120GC-S,GCTS,
				GN-S
■	VEP23599B	SUB C.B.A.	1	(RTL) NV-GS200EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP23602B	SUB C.B.A.	1	(RTL) NV-GS120EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP001D4B	SIDE	L C.B.A.	1
■	VEP001C6A	JACK C.B.A.	1	(RTL)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP001D0A	SD	HOLDER C.B.A.	1
■	VEP001C9A	R-RELAY C.B.A.	1	(RTL)
■	VEP001C8A	LCD	DET C.B.A.	1
■	VEP001C2B	SD	OPEN C.B.A.	1
■	VEP001G3A	PL FLEX. CARD U.	1	(RTL)
■	VEP08334B	MONITOR C.B.A.	1	(RTL) NV-GS200EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP08336A	MONITOR C.B.A.	1	(RTL) NV-GS120EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP29159A	EVF	B/L C.B.A.	1
■	VEP04854A	FRONT C.B.A.	1	NV-GS200EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP04854B	FRONT C.B.A.	1	NV-GS120EG-S,EGMS,
				EB-S,GC-S,GCTS,GN-S
■	VEP001E6A	FLASH	SW C.B.A.	1
				EB-S,GC-S,GCTS,GN-S
■	VEP001D4B	SIDE	L C.B.A.	
B6101	ML-621S/F9D	BATTERY	1	
C2601	ECJ1VC1H080C	C.CAPACITOR CH 50V 8P	1	
C2603	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
FP6301	K1MN21B00036	CONNECTOR 21P	1	
FP6302	K1MN06B00038	CONNECTOR 6P	1	
IC2601	C1ZBZ0002438	IC	1	
R6301	ERJ6GEYJ102V	M.RESISTOR CH 1/10W 1K	1	
R6303	ERJ3GEYJ471V	M.RESISTOR CH 1/10W 470	1	
R6304	ERJ3GEYJ473V	M.RESISTOR CH 1/10W 47K	1	D0GB473JA002
R6305	ERJ3GEYJ473V	M.RESISTOR CH 1/10W 47K	1	D0GB473JA002
S6302	K0H1BA000436	SWITCH	1	
S6303	VSS0533	SLIDE SWITCH	1	K0D112A00116
VZ6301	VRT0158	TRANSIENT/SURGE ABSORBER	1	D4ED12710002
VZ6307	VRT0158	TRANSIENT/SURGE ABSORBER	1	D4ED12710002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X2601	H0A327200093	CRYSTAL OSCILLATOR	1	
■	VEP001C6A	JACK C.B.A.		(RTL)
C3908	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4001	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4003	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C4004	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C4901	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C4902	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C4903	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4904	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4905	ECST0JY226R	T.CAPACITOR CH 6.3V 22U	1	
C4906	ECST0JY226R	T.CAPACITOR CH 6.3V 22U	1	
C4908	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C4909	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C4910	ECST0JY226R	T.CAPACITOR CH 6.3V 22U	1	
C4913	F1H0J475A009	C.CAPACITOR CH 6.3V 4.7U	1	
D4901	MA2SD2400L	DIODE	1	
FP6201	VJS4264B033	CONNECTOR (FEMALE) 33P	1	
JK3001	VJJ0670	S-JACK	1	K2HZ104A0002
JK3901	K2HZ105E0006	JACK	1	
JK3952	K1FA104A0016	JACK	1	
JK4001	K2HC106B0012	JACK	1	
JK4901	K2HC107B0003	JACK	1	
LB3902	J0JAC0000014	FILTER	1	J0JAC0000016
LB4001	J0JBC0000054	INDUCTOR	1	J0JBC0000059
LB4003	J0JAC0000014	FILTER	1	J0JAC0000016
LB4005	J0JAC0000014	FILTER	1	J0JAC0000016
LB4006	J0JAC0000014	FILTER	1	J0JAC0000016
LB4007	J0JBC0000054	INDUCTOR	1	J0JBC0000059
LB4008	J0JBC0000054	INDUCTOR	1	J0JBC0000059
LB4009	J0JAC0000014	FILTER	1	J0JAC0000016
LB4921	J0JAC0000015	FILTER	1	J0JAC0000017
LB4922	J0JAC0000015	FILTER	1	J0JAC0000017
LB4923	J0JAC0000015	FILTER	1	J0JAC0000017
LB4924	J0JAC0000015	FILTER	1	J0JAC0000017
LB4926	J0JAC0000015	FILTER	1	J0JAC0000017
LB4928	J0JAC0000015	FILTER	1	J0JAC0000017
Q4901	2SD2216J0L	TRANSISTOR	1	
Q4902	2SB1462JHL	TRANSISTOR	1	
Q4903	2SD2216J0L	TRANSISTOR	1	
Q4904	2SB1462JHL	TRANSISTOR	1	
Q4907	B1ABBE000002	TRANSISTOR	1	
Q4908	B1ABBE000002	TRANSISTOR	1	
QR4901	B1GDBEHH0001	TRANSISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3920	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R3921	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R3922	D1BA27R0A009	RESISTOR	1	
R3923	D1BA27R0A009	RESISTOR	1	
R3951	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	1	
R3952	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	1	
R3953	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	1	
R3954	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	1	
R4001	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	1	
R4901	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R4902	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
R4904	ERJ3RBD562V	M.RESISTOR CH 1/16W 5.6K	1	
R4905	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	1	ERJ2RMJ471X
R4906	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R4907	VRE0071E154	M.RESISTOR 150K	1	D0HB154ZA004
R4908	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	ERJ3RBD563V
R4909	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R4910	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	1	
R4911	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R4912	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	1	ERJ2RMJ471X
R4913	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	
R4914	VRE0071E154	M.RESISTOR 150K	1	D0HB154ZA004
R4915	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	ERJ3RBD563V
R4916	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R4917	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	1	
R4918	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R4920	ERJ3RBD562V	M.RESISTOR CH 1/16W 5.6K	1	
R4922	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4923	ERJ2GEJ683X	M.RESISTOR CH 1/16W 68K	1	ERJ2RMJ683X
R4924	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
S6212	K0L1BB000022	DETECT SWITCH	1	
VZ4001	D4ED1120A002	TRANSIENT/SURGE ABSORBER	1	
VZ4002	D4ED1270A008	TRANSIENT/SURGE ABSORBER	1	
VZ4003	D4ED1270A008	TRANSIENT/SURGE ABSORBER	1	
VZ4004	VRT0158	TRANSIENT/SURGE ABSORBER	1	D4ED12710002
VZ4902	D4ED1120A002	TRANSIENT/SURGE ABSORBER	1	
VZ4903	D4ED1120A002	TRANSIENT/SURGE ABSORBER	1	
■	VEP001D0A	SD	HOLDER C.B.A.	
C3901	F1G0J105A001	C.CAPACITOR CH 6.3V 1U	1	
C3902	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C3905	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C3906	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C3907	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
FP6202	K1MN14B00119	CONNECTOR 14P	1	
HS3951	K1NA09E00039	CONNECTOR 9P	1	
R3901	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3902	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3903	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3904	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3905	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3906	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3907	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3908	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	ERJ2RMJ220X
R3909	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
R3910	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
R3912	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
R3913	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
■	VEP001C9A	R-RELAY C.B.A.		(RTL)
D6601	B3AAB0000037	LED	1	
FP6601	K1MN06A00016	CONNECTOR 6P	1	
S6601	K0H1BA000436	SWITCH	1	
S6602	K0H1BA000436	SWITCH	1	
■	VEP001C8A	LCD	DET C.B.A.	
S6701	K0L1BA000102	SWITCH	1	
■	VEP001C2B	SD	OPEN C.B.A.	
LB6801	VLF1144A102	COIL 1000UH	1	
S6801	K0L1BB000022	DETECT SWITCH	1	
■	VEP001G3A	PL FLEX. CARD U.		(RTL)
D924	SML-310MT	LED	1	B3ABB0000091
■	VEP08334B	MONITOR C.B.A.		(RTL) NV-GS200
■	VEP08336A	MONITOR C.B.A.		(RTL) NV-GS120
C901	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C902	ECST0GY226R	T.CAPACITOR CH 4V 22U	1	GS200
C902	ECST0JY106R	T.CAPACITOR CH 6.3V 10U	1	GS120
C903	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C904	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C905	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C906	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C910	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C911	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C912	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C913	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C914	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	GS200
C915	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	GS200

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C916	F1J1A475A023	C.CAPACITOR CH 10V 4.7U	1	GS200
C917	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	GS200
C919	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	GS120
C920	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	GS120
C921	F1J1A475A023	C.CAPACITOR CH 10V 4.7U	1	GS200
C921	ECJ2YB1C105K	C.CAPACITOR CH 16V 1U	1	GS120
C922	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	GS120
C923	F1J0J106A014	C.CAPACITOR CH 6.3V 10U	1	
C924	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	GS200
C925	ECJ2YB1A225K	C.CAPACITOR CH 10V 2.2U	1	GS200
C925	ECJ2YB1C105K	C.CAPACITOR CH 16V 1U	1	GS120
C926	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C933	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
D901	MAZ80560ML	ZENNER DIODE	1	GS200
D902	02DZ6.2YTPH3	DIODE	1	B0BC6R100014
D905	B3AFB0000061	LED	1	
D906	B3AFB0000061	LED	1	
D907	B3AFB0000061	LED	1	
D908	B3AFB0000061	LED	1	
D909	B3AFB0000061	LED	1	
D910	B3AFB0000061	LED	1	
D911	B3AFB0000061	LED	1	
D912	B3AFB0000061	LED	1	
D913	B3AFB0000061	LED	1	GS120
FP901	K1MN24B00092	CONNECTOR 24P	1	
FP902	K1MN23B00054	CONNECTOR 23P	1	
FP904	VJS3319B005	CONNECTOR (FEMALE) 5P	1	
IC901	AN12530A-VT	IC	1	
IC903	C0CBCAB00006	IC	1	
L901	G1C100KA0055	CHIP INDUCTOR 10UH	1	GS200
Q901	XP4654	TRANSISTOR-TRANSISTOR	1	XP04654
Q902	2SD2216J0L	TRANSISTOR	1	
Q903	2SD2216J0L	TRANSISTOR	1	
Q904	2SD2216J0L	TRANSISTOR	1	
Q905	XP4654	TRANSISTOR-TRANSISTOR	1	XP04654
Q906	2SD2216J0L	TRANSISTOR	1	
Q907	2SD2216J0L	TRANSISTOR	1	
Q908	2SD2216J0L	TRANSISTOR	1	
Q909	2SD2216J0L	TRANSISTOR	1	
Q910	2SD2216J0L	TRANSISTOR	1	
Q911	2SD2216J0L	TRANSISTOR	1	GS120
Q912	B1ADBE000001	TRANSISTOR	1	GS120
Q913	B1ADBE000001	TRANSISTOR	1	GS200
Q913	XP1501	TRANSISTOR-TRANSISTOR	1	GS120 XP01501
Q914	B1ADGD000005	TRANSISTOR	1	
Q915	2SD2216J0L	TRANSISTOR	1	
Q916	B1ADBE000001	TRANSISTOR	1	
QR902	UN9214JTX	TRANSISTOR-RESISTOR	1	GS120

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR906	UN9214JTX	TRANSISTOR-RESISTOR	1	GS120
QR907	B1GDBEHH0001	TRANSISTOR-RESISTOR	1	GS120
QR913	UNR9215J0L	TRANSISTOR-RESISTOR	1	
R901	ERJ3GEYD153V	M.RESISTOR CH 1/10W 15K	1	D0HB153ZA002
R902	ERJ6GEY0R00V	M.RESISTOR CH 1/8W 0	1	D0GBR00JA017
R903	ERJ3GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	GS200
R903	ERJ3GEYJ682V	M.RESISTOR CH 1/10W 6.8K	1	GS120 D0GB682JA002
R905	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R906	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R907	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R908	ERJ6GEY0R00V	M.RESISTOR CH 1/8W 0	1	GS120 D0GBR00JA017
R909	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R910	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R911	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R912	ERJ3GEYJ102A	M.RESISTOR CH 1/10W 1K	1	
R913	ERJ3GEYJ102A	M.RESISTOR CH 1/10W 1K	1	
R915	ERJ3GEYJ102A	M.RESISTOR CH 1/10W 1K	1	
R917	ERJ6GEY0R00V	M.RESISTOR CH 1/8W 0	1	D0GBR00JA017
R918	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R919	ERJ3GEYJ683V	M.RESISTOR CH 1/10W 68K	1	D0GB683JA002
R920	ERJ3GEYJ101	M.RESISTOR CH 1/10W 100	1	D0GB101JA002
R921	ERJ3GEYJ101	M.RESISTOR CH 1/10W 100	1	D0GB101JA002
R922	ERJ3GEYJ101	M.RESISTOR CH 1/10W 100	1	D0GB101JA002
R923	ERJ3GEYJ101	M.RESISTOR CH 1/10W 100	1	GS200 D0GB101JA002
R923	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	GS120
R924	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R925	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R926	ERJ3GEYJ102A	M.RESISTOR CH 1/10W 1K	1	
R927	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	GS200
R927	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	GS120
R928	ERJ3GEYJ333V	M.RESISTOR CH 1/10W 33K	1	GS120 D0GB333JA002
R929	ERA3YED332	CHIP RESISTOR	1	GS120
R930	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	GS200
R930	ERJ3GEYJ333V	M.RESISTOR CH 1/10W 33K	1	GS120 D0GB333JA002
R931	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R932	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R933	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R934	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R935	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R936	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	GS120
R937	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	GS200
R939	ERJ3GEYJ472A	M.RESISTOR CH 1/10W 4.7K	1	GS200
R939	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	GS120
R940	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	GS120
R941	ERJ3RBD122V	M.RESISTOR CH 1/16W 1.2K	1	GS200
R941	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	GS120
R942	ERJ3RBD273V	M.RESISTOR CH 1/16W 27K	1	GS200
R943	ERJ3RBD103V	M.RESISTOR CH 1/16W 10K	1	GS200
R946	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R947	ERJ3GEYJ333V	M.RESISTOR CH 1/10W 33K	1	GS120 D0GB333JA002
R948	ERJ3GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R949	ERJ3GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R952	ERJ3GEYJ473V	M.RESISTOR CH 1/10W 47K	1	GS120 D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R953	ERJ3GEYJ332V	M.RESISTOR CH 1/10W 3.3K	1	GS120 D0GB332JA002
R954	ERJ3GEYD153V	M.RESISTOR CH 1/10W 15K	1	GS120 D0HB153ZA002
R955	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	GS120
R956	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	GS120
R957	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	GS120
R959	ERJ3GEYJ473V	M.RESISTOR CH 1/10W 47K	1	D0GB473JA002
R960	ERJ3GEYJ183V	M.RESISTOR CH 1/10W 18K	1	GS200 D0GB183JA002
R960	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	GS120
R961	ERJ3GEYJ823V	M.RESISTOR CH 1/10W 82K	1	D0GB823JA002
R962	ERJ3GEYJ224V	M.RESISTOR CH 1/10W 220K	1	D0GB224JA002
R963	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	GS200
R983	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	GS200
R985	ERJ3GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	GS200
R986	ERJ3GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	GS200
VZ902	VRT0158	TRANSIENT/SURGE ABSORBER	1	D4ED12710002
■	VEP29159A	EVF	B/L C.B.A.	
C801	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C802	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C803	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
D801	B3AFB0000052	LED	1	
D802	MAZ80560ML	ZENNER DIODE	1	
D803	02DZ6.2YTPH3	DIODE	1	B0BC6R100014
D804	MA3S13300L	DIODE	1	
FP801	VJS3320D018	CONNECTOR (FEMALE) 18P	1	K1MN18B00037
FP802	K1MN20B00106	CONNECTOR 20P	1	
Q801	2SD2216J0L	TRANSISTOR	1	
R801	ERJ3GEYJ472A	M.RESISTOR CH 1/10W 4.7K	1	
R802	ERJ3GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R803	ERJ3GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R804	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	ERJ3RED680V
R805	ERJ3GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R806	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
■	VEP04854A	FRONT C.B.A.		NV-GS200
■	VEP04854B	FRONT C.B.A.		NV-GS120
C491	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C492	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C493	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C4801	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C4802	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C4803	ECUE1E332KBQ	C.CAPACITOR CH 25V 3300P	1	ECJ0EB1E332K
C4804	ECUE1E332KBQ	C.CAPACITOR CH 25V 3300P	1	ECJ0EB1E332K
C4805	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C4806	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C4807	F1J0J475A008	C.CAPACITOR CH 6.3V 4.7U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4808	ECST0JY226R	T.CAPACITOR CH 6.3V 22U	1	
C4811	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C4812	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C4899	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	1	
C6401	F1J0J106A014	C.CAPACITOR CH 6.3V 10U	1	
C7001	ECJ0EB1C223K	C.CAPACITOR CH 16V 0.022U	1	GS200
C7002	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	GS200
C7003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	GS200
C7004	F2AZZ6500001	ALUMINUM NON-SOLID E	1	GS200
C7006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	GS200
C7010	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	GS200
D491	MA132WA	DIODE	1	MA3S132D
D6801	B3AAB0000037	LED	1	
D6802	B3GA00000037	PHOTO DIODE	1	
D7003	B0ECKT000001	DIODE	1	GS200
D7004	MA5Z300-L	DIODE	1	GS200
FP4801	K1MN24A00051	CONNECTOR 24P	1	GS200
FP4801	K1MN18A00055	CONNECTOR 18P	1	GS120
FP7001	VJS4297B006	CONNECTOR (FEMALE) 6P	1	GS200 K1MN06B00057
FP7002	VJS3971D027	CONNECTOR (FEMALE) 27P	1	GS200 K1MN27B00008
IC4801	C0ABBB000105	IC	1	
IC7001	C0JBAA000115	IC	1	GS200
IC7003	B1JBLP000004	IC	1	GS200
IR6401	B3RAB0000030	IR RECEIVER	1	
L7001	G1C560MA0024	CHIP INDUCTOR 56UH	1	GS200
Q491	2SD1030	TRANSISTOR	1	
Q492	B1ABBE000002	TRANSISTOR	1	
Q4803	2SD1819AWL	TRANSISTOR	1	2SD1819A0L
Q7001	B1BDDG000007	TRANSISTOR	1	GS200
Q7002	2SB1462JHL	TRANSISTOR	1	GS200
Q7003	B1ABBE000002	TRANSISTOR	1	GS200
QR7001	UN921F	TRANSISTOR	1	GS200
R491	ERJ2GEJ225X	M.RESISTOR CH 1/16W 2.2M	1	ERJ2RMJ225X
R492	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	1	ERJ2RMJ334X
R493	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X
R494	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R495	ERJ3GEYJ106	M.RESISTOR CH 1/10W 10M	1	
R4801	ERJ6GEYJ392V	M.RESISTOR CH 1/10W 3.9K	1	
R4802	ERJ6GEYJ392V	M.RESISTOR CH 1/10W 3.9K	1	
R4803	ERJ2GEJ683X	M.RESISTOR CH 1/16W 68K	1	ERJ2RMJ683X
R4804	ERJ2GEJ683X	M.RESISTOR CH 1/16W 68K	1	ERJ2RMJ683X
R4805	ERJ2GEJ394X	M.RESISTOR CH 1/16W 390K	1	ERJ2RMJ394X
R4806	ERJ2GEJ394X	M.RESISTOR CH 1/16W 390K	1	ERJ2RMJ394X
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	1	ERJ2RMJ333X
R4815	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	1	ERJ2RMJ472X

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6401	ERJ3GEY0R00A	M.RESISTOR CH 1/10W 0	1	
R6402	ERJ3GEYJ470	M.RESISTOR CH 1/10W 47	1	
R6803	ERJ3GEYJ331V	M.RESISTOR CH 1/10W 330	1	
R7001	ERJ6GEYJ330V	M.RESISTOR CH 1/10W 33	1	GS200
R7002	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	1	GS200 ERJ2RMJ393X
R7003	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	GS200
R7004	ERJ2GEJ822X	M.RESISTOR CH 1/16W 8.2K	1	GS200 ERJ2RMJ822X
R7005	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	1	GS200 ERJ2RMJ334X
R7006	ERJ2GEJ564X	M.RESISTOR CH 1/16W 560K	1	GS200 ERJ2RMJ564X
R7008	ERJ2GEJ330X	M.RESISTOR CH 1/16W 33	1	GS200
R7010	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	GS200
R7018	ERJ2GEJ681X	M.RESISTOR CH 1/16W 680	1	GS200 ERJ2RMJ681X
R7019	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	1	GS200 ERJ2RMJ220X
R7022	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	GS200
T7001	G5DYA0000033	SWITCHING TRANSFORMER	1	GS200 G5DYA0000032
VZ4801	D4ED1270A003	TRANSIENT/SURGE ABSORBER	1	
VZ4802	D4ED1270A003	TRANSIENT/SURGE ABSORBER	1	

14. Schematic Diagram for printing with A4 size

(JACK C.B.A.)

:VIDEO MAIN SIGNAL PATH
:AUDIO MAIN SIGNAL PATH

MIC/ REMOTE
JK4901
K2HC107B0003

LB4923 J0JAC0000015
LB4924 J0JAC0000015
LB4926 J0JAC0000015
LB4921 J0JAC0000015
LB4928 J0JAC0000015
LB4922 J0JAC0000015
VZ4902
D4ED1120A002
VZ4903
D4ED1120A002

Q4908
B1ABBE000002
(R.FILTER)
R4901 330
R4904 5600
C4913 4.7
R4924 47K
R4920 5600
C4901 4700P
R4922 22K
R4923 68K
C4909 1
R4906 10K
R4907 150K
R4908 56K
Q4901
2SD2216J0L
(AMP)
R4905 470
C4903 1
C4902 4700P
R4909 1K
Q4902
2SB1462JHL
(AMP)
R4910 5600
R4911 150
C4905 6V22
CL4902
C4908 1
R4912 470
R4913 10K
R4914 150K
R4915 56K
Q4903
2SD2216J0L
(AMP)
R4916 1K
Q4904
2SB1462JHL
(AMP)
R4917 5600
R4918 150
C4910 6V22
CL4901
Q4907
B1ABBE000002
(R.FILTER)
R4902 4700
C4906 6V22
QR4901
B1GDBEHH0001
(POWER SUPPLY)
C4904 1
D4901
MA2SD2400L

USB
JK3901
K2HZ105E0006
R3921 0
R3920 0
R3922 27
R3923 27
LB3902 J0JAC0000014
C3908 1

S VIDEO IN/OUT
JK3001
VJJ0670
LB4007 J0JBC0000054
LB4008 J0JBC0000054
VZ4002
D4ED1270A008
VZ4003
D4ED1270A008
LB4009 J0JAC0000014
VZ4001
D4ED1120A002

AV/HP
JK4001
K2HC106B0012
LB4001 J0JBC0000054
LB4005 J0JAC0000014
LB4003 J0JAC0000014
LB4006 J0JAC0000014
CL4001
R4001 100
CL4002
C4003 4700P
C4004 4700P
VZ4004
VRT0158

DV TERMINAL
JK3952
K1FA104A0016
TPB(-)
TPB(+)
TPA(-)
TPA(+)
R3951 0
R3952 0
R3953 0
R3954 0

TO
MAIN CONNECTION
FP6201

1	D GND	FP6504-33
2	D GND	FP6504-33
3	USB D(-)	FP6504-32
4	VBUS	FP6504-31
5	USB D(+)	FP6504-30
6	MIC GND	FP6504-29
7	MIC GND	FP6504-28
8	WD REMO	FP6504-27
9	MIC 5V	FP6504-26
10	MIC 5V	FP6504-25
11	EXT MIC	FP6504-24
12	EXT MIC(L)	FP6504-23
13	R PLUG Ⓛ	FP6504-22
14	EXT MIC(R)	FP6504-21
15	CR POWER	FP6504-20
16	L/HP L	FP6504-19
17	PLUG IN Ⓛ	FP6504-18
18	R/GND	FP6504-17
19	V/HP R	FP6504-16
20	S C I/O	FP6504-15
21	S PLUG Ⓛ	FP6504-14
22	S Y I/O	FP6504-13
23	D GND	FP6504-12
24	D GND	FP6504-11
25	TPB(+)	FP6504-10
26	TPB(-)	FP6504-9
27	TPA(+)	FP6504-8
28	TPA(-)	FP6504-7
29	D GND	FP6504-6
30	D GND	FP6504-5
31		FP6504-4
32		FP6504-3
33	EJECT SW	FP6504-1,2

S6212
K0L1BB000022
EJECT

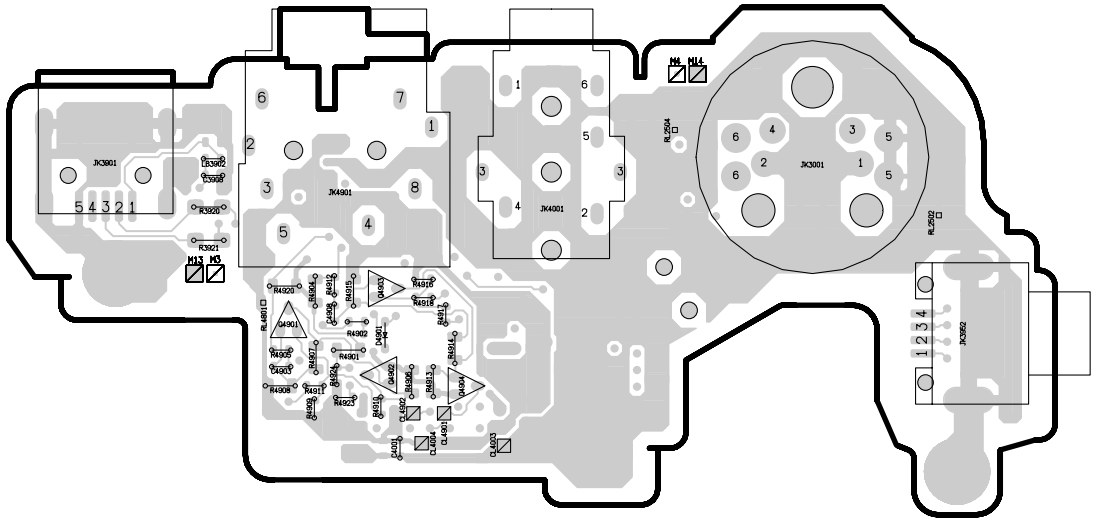
RL4801 RL4003 CL4004 RL2504 RL2503 RL2502 RL2501
C4001 1
TO
FRAME GND

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

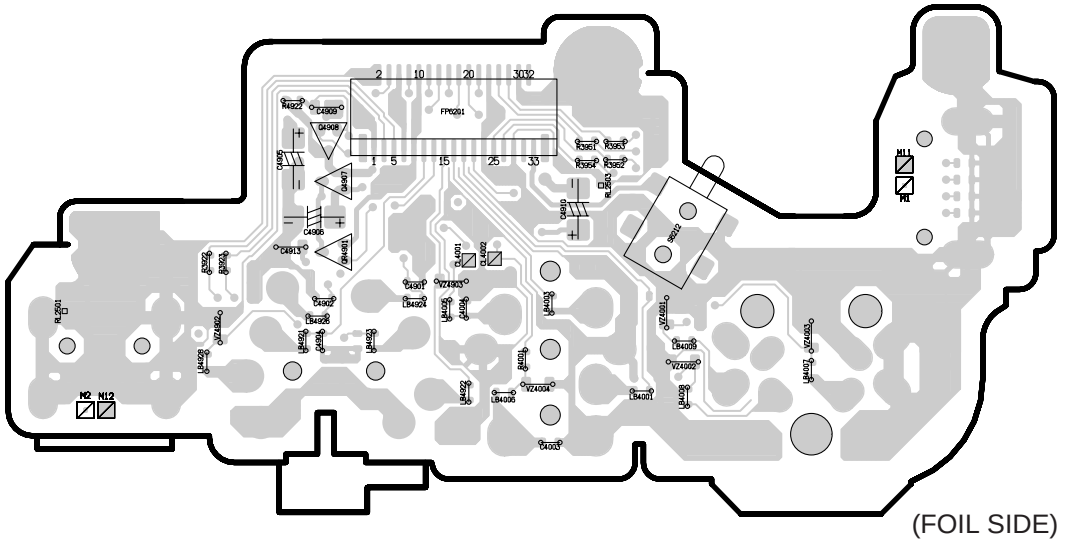
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-GS200SERIES,GS120SERIES
JACK SCHEMATIC DIAGRAM

(VEP001C6A)



(COMPONENT SIDE)



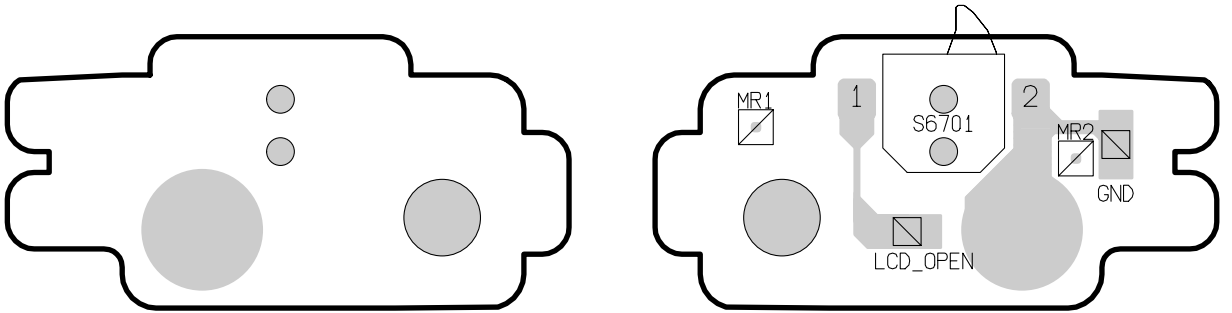
(FOIL SIDE)

NV-GS200SERIES,GS120SERIES
JACK C.B.A.

E D C B A

1 2 3 4 5

(VEP001C8A)



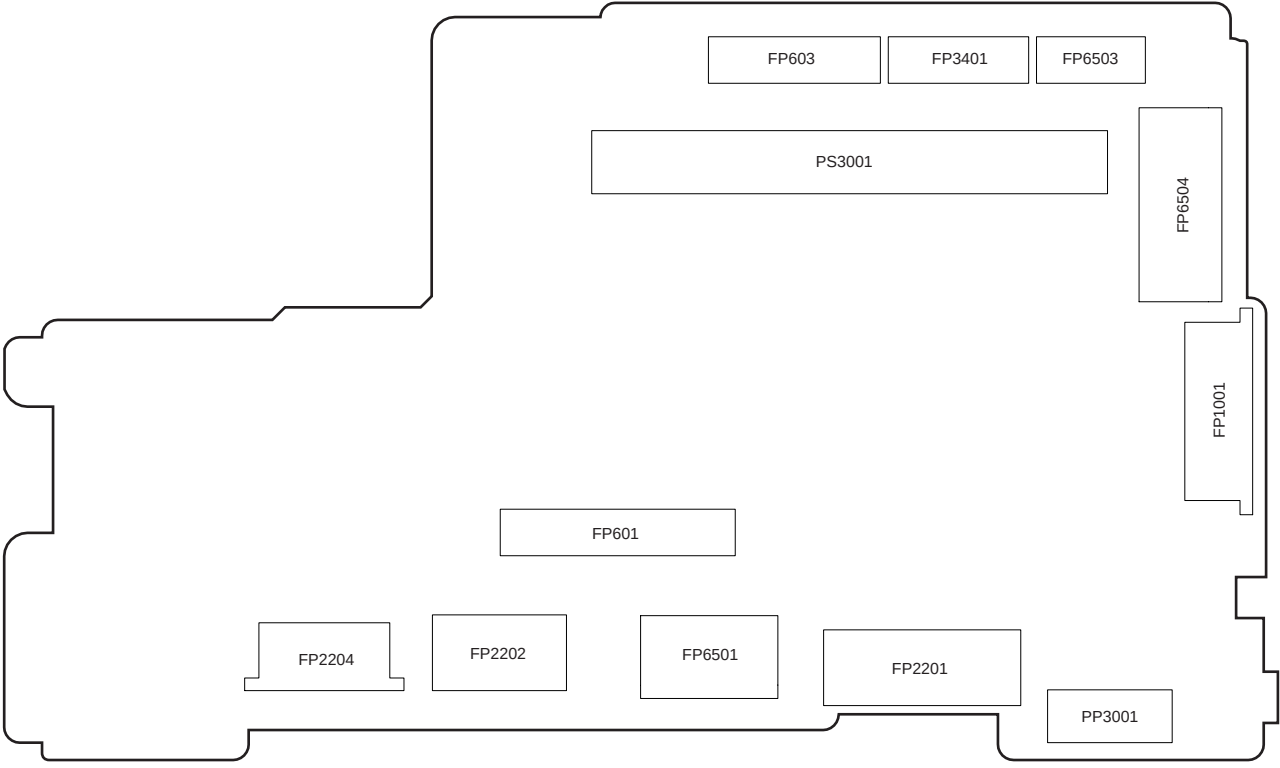
(COMPONENT SIDE) (FOIL SIDE)

NV-GS200SERIES,GS120SERIES
SIDE (R) (LCD DET) C.B.A.

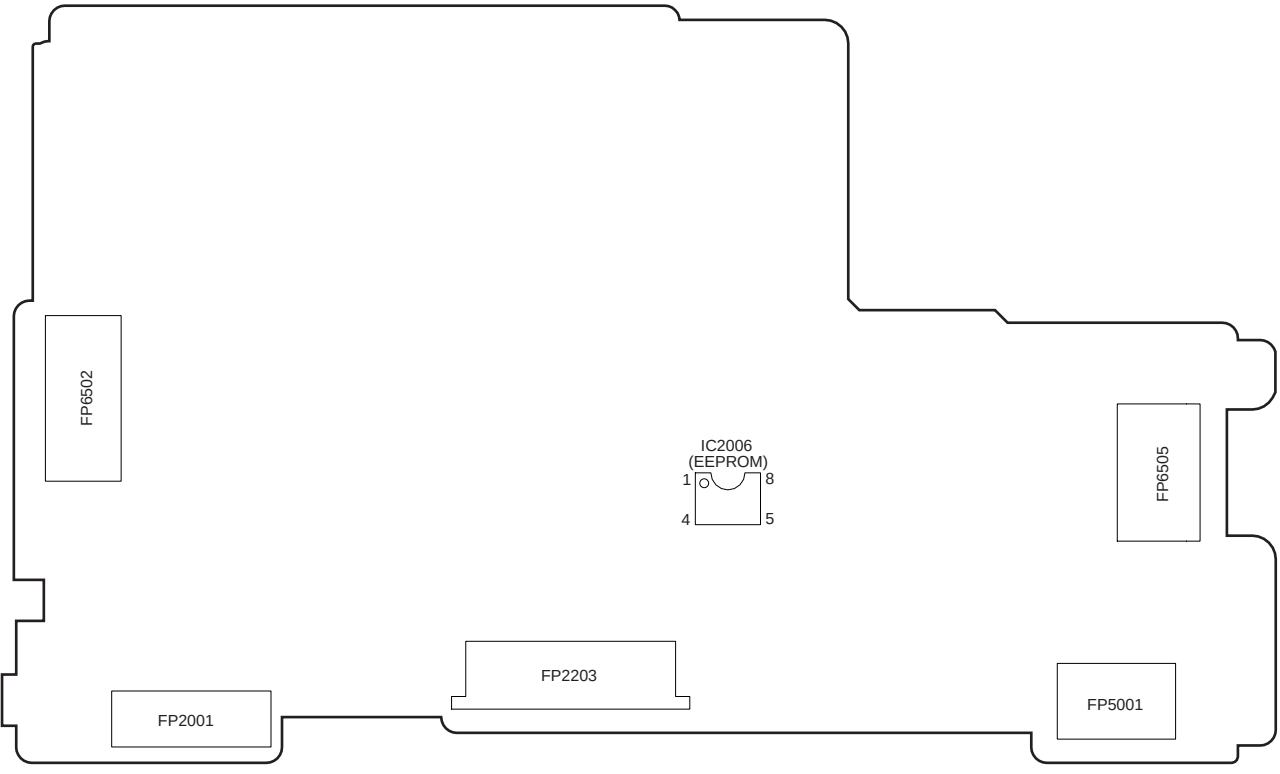
B

A

1 2 3 4 5

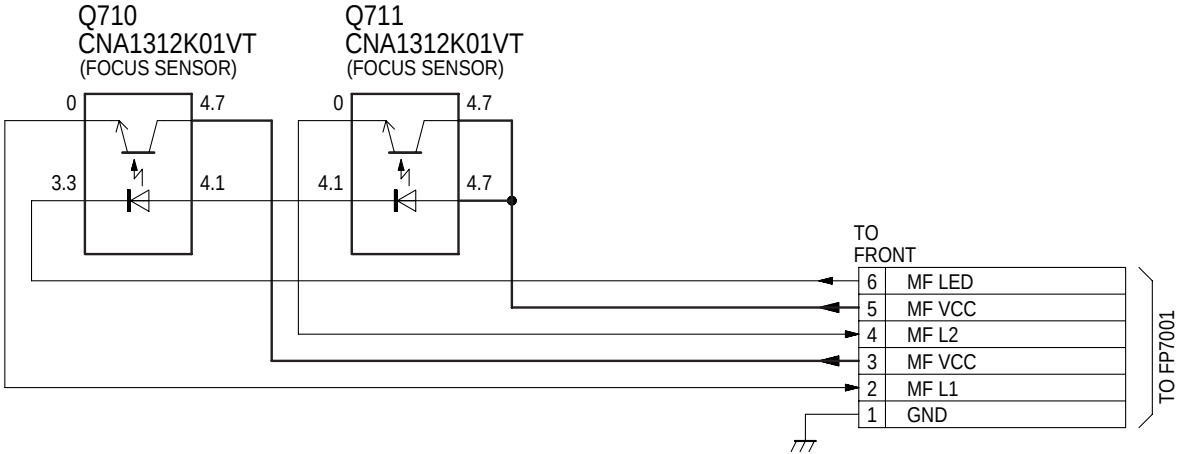


(COMPONENT SIDE)



(FOIL SIDE)

(MF SENSOR C.B.A.)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

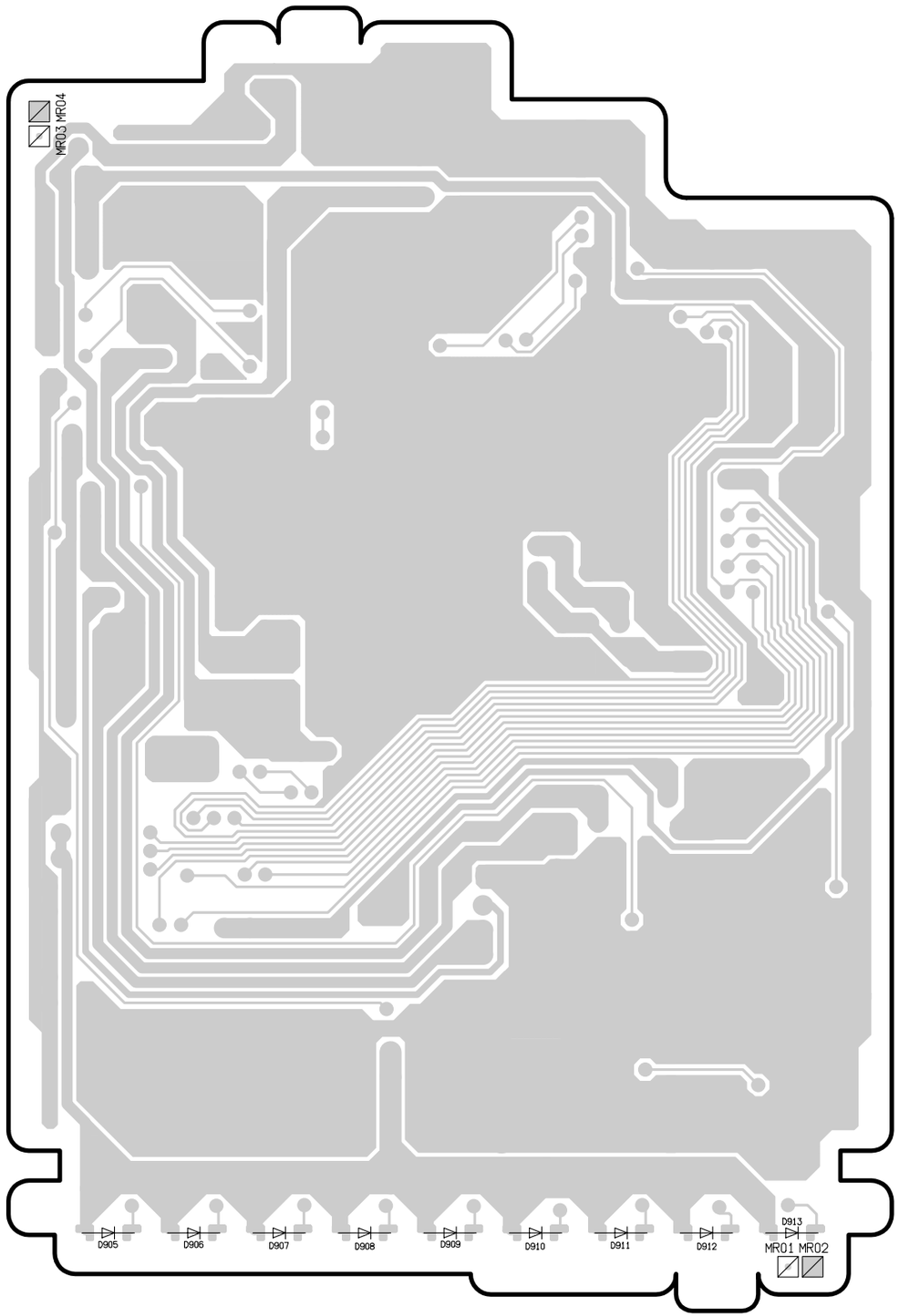
NV-GS200SERIES,GS120SERIES
MF SENSOR SCHEMATIC DIAGRAM
（NV-GS200SERIES ONLY）

B

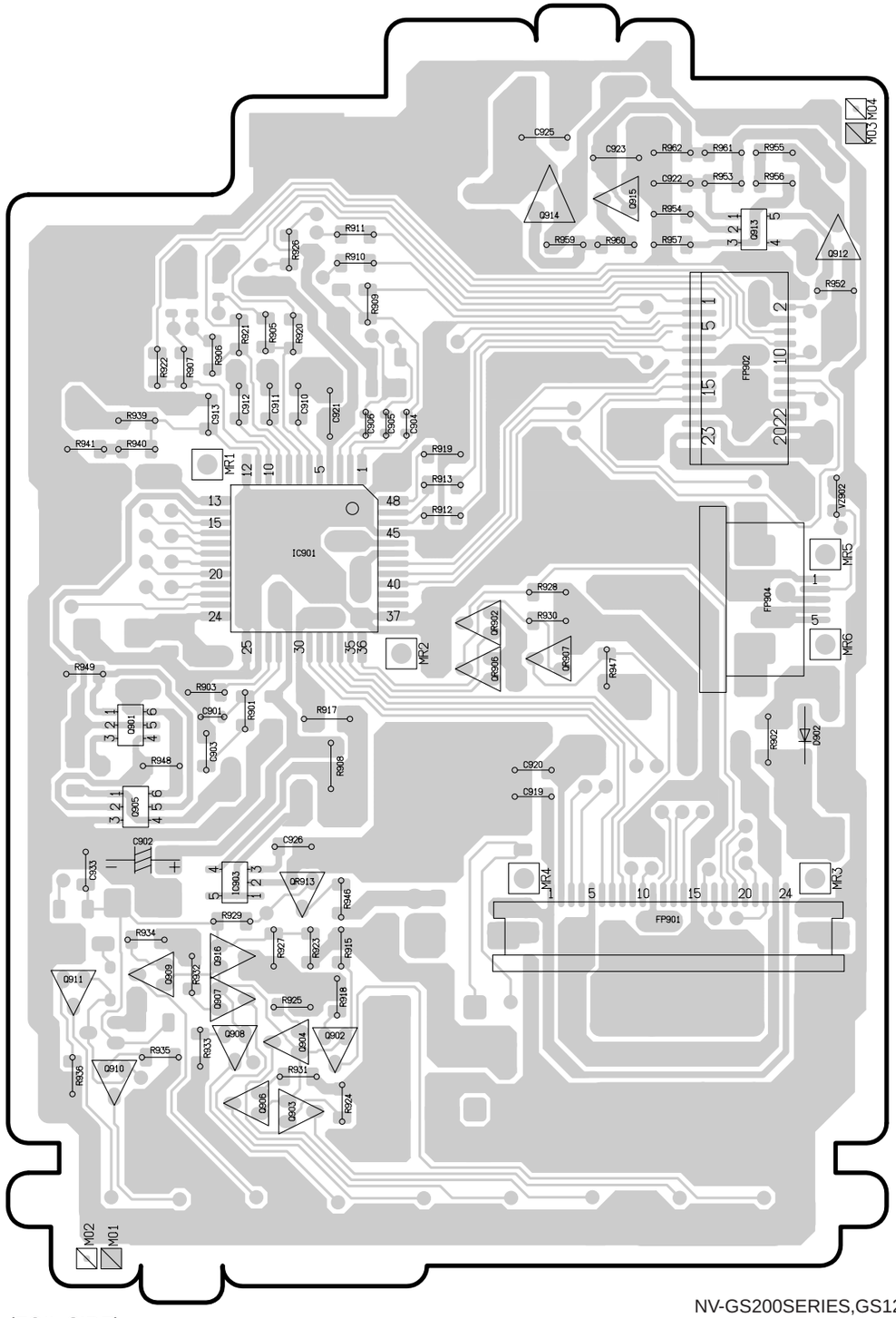
A

1 2 3

(VEP08336A)



(COMPONENT SIDE)



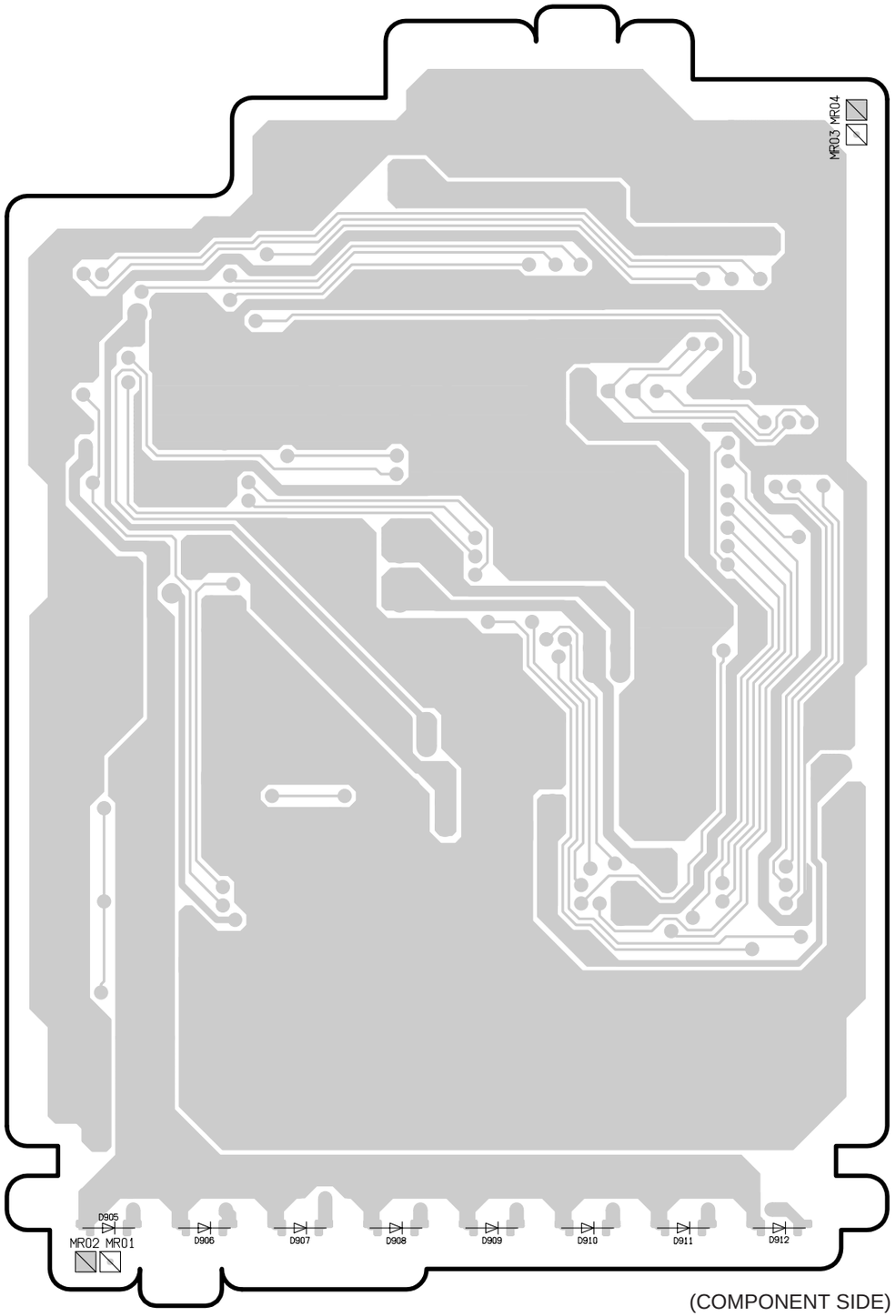
(FOIL SIDE)

Monitor C.B.A.			
Integrated Circuit		C922	F-8
IC901	D-6	C923	F-8
IC903	C-6	C925	F-8
Transister		C926	C-6
Q901	C-6	C933	C-6
Q902	B-7	**Resistor**	
Q903	B-6	R901	C-6
Q904	B-6	R902	C-8
Q905	C-6	R903	C-6
Q906	B-6	R905	E-6
Q907	B-6	R906	E-6
Q908	B-6	R907	E-6
Q909	B-6	R908	C-7
Q910	B-6	R909	E-7
Q911	B-6	R910	E-7
Q912	E-9	R911	E-7
Q913	E-8	R912	D-7
Q914	E-8	R913	D-7
Q915	E-8	R915	B-7
Q916	B-6	R917	C-7
Transister &Resister		R918	B-7
QR902	D-7	R919	D-7
QR906	C-7	R920	E-6
QR907	D-8	R921	E-6
QR913	C-6	R922	E-6
Connector		R923	B-7
FP901	B-8	R924	B-7
FP902	E-8	R925	B-6
FP904	D-8	R926	E-6
Diode		R927	B-6
D902	C-9	R928	D-8
D905	A-1	R929	B-6
D906	A-2	R930	D-8
D907	A-2	R931	B-6
D908	A-2	R932	B-6
D909	A-3	R933	B-6
D910	A-3	R934	B-6
D911	A-4	R935	B-6
D912	A-4	R936	B-6
D913	A-4	R939	E-6
Absorber		R940	D-6
VZ902	D-9	R941	D-6
Capacitor		R946	B-7
C901	C-6	R947	C-8
C902	C-6	R948	C-6
C903	C-6	R949	C-6
C904	E-7	R952	E-9
C905	E-7	R953	F-8
C906	E-7	R954	E-8
C910	E-6	R955	F-8
C911	E-6	R956	F-8
C912	E-6	R957	E-8
C913	E-6	R959	E-8
C919	C-7	R960	E-8
C920	C-7	R961	F-8
C921	E-7	R962	F-8

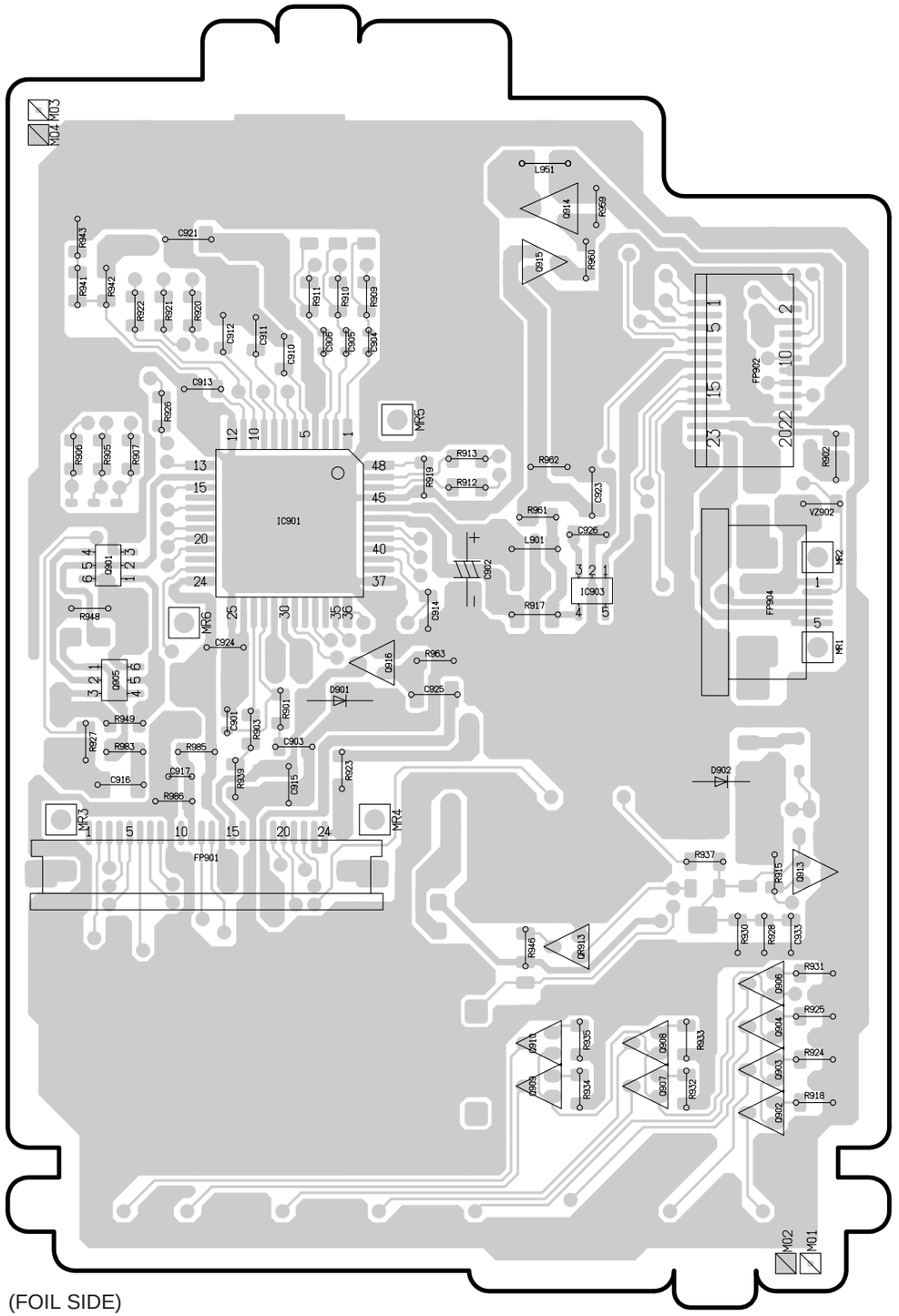
ADDRESS INFORMATION

NV-GS200SERIES,GS120SERIES
MONITOR C.B.A.
(NV-GS120SERIES ONLY)

(VEP08334B)



(COMPONENT SIDE)



(FOIL SIDE)

Monitor C.B.A.			
Integrated Circuit		C917	C-6
IC901	D-6	C918	C-6
IC903	D-8	C921	E-6
Transister		C923	D-8
Q901	D-6	C924	D-6
Q902	B-9	C925	C-7
Q903	B-9	C926	D-8
Q904	B-9	C933	B-9
Q905	C-6	**Resistor**	
Q906	B-9	R901	C-6
Q907	B-8	R902	D-9
Q908	B-8	R903	C-6
Q909	B-8	R905	D-6
Q910	B-8	R906	D-6
Q913	C-9	R907	D-6
Q914	E-8	R909	E-7
Q915	E-8	R910	E-7
Q916	D-7	R911	E-7
Transister &Resister		R912	D-7
QR913	B-8	R913	D-7
Connector		R915	C-9
FP901	C-6	R917	D-8
FP902	E-8	R919	D-7
FP904	D-8	R920	E-6
Diode		R921	E-6
D901	C-7	R922	E-6
D902	C-8	R923	C-7
D905	A-1	R924	B-9
D906	A-2	R925	B-9
D907	A-2	R926	E-6
D908	A-3	R927	C-6
D909	A-3	R928	B-8
D910	A-3	R930	B-8
D911	A-4	R931	B-9
D912	A-4	R932	B-8
Absorber		R933	B-8
VZ902	D-9	R934	B-8
Coil		R935	B-8
L901	D-8	R937	C-8
L951	F-8	R939	C-6
Capacitor		R941	E-6
C901	C-6	R942	E-6
C902	D-7	R943	E-6
C903	C-6	R946	B-7
C904	E-7	R948	D-6
C905	E-7	R949	C-6
C906	E-7	R959	E-8
C910	E-6	R960	E-8
C911	E-6	R961	D-8
C912	E-6	R962	D-8
C913	E-6	R963	D-7
C914	D-7	R983	C-6
C915	C-6	R985	C-6
C916	C-6	R986	C-6

ADDRESS INFORMATION

NV-GS200SERIES,GS120SERIES
MONITOR C.B.A. (NV-GS200SERIES ONLY)

LENS

MMC/SD

S VIDEO
IN OUTPUT

VIDEO/AUDIO
IN OUTPUT

SPEAKER

FRONT C.B.A.

IC4801
(OP AMP)

MIC

EXT MIC/
FREE STYLE
REMOTE
CONTROL

ZOOM

ND

IRIS

FOCUS

CCD

SUB C.B.A.

CAMERA

IC101
(CG/SSG)

IC110
IC107(NV-GS200
SERIES ONLY)

IC108
(V DRIVER)

2FCK
X101

IC102
REG

IC103
REG

IC104,105,106
(CDS,AGC,AD)

IC307
(EEPROM)

IC305
(CAMERA
MICROCOMPUTER)

IC303
(DIGTAL
SIGNAL
PROCESSOR)

IC705
(HOLE AMP)

IC701
(LPF)

IC706
(ND DRIVER)

IC702
(MOTOR DRIVE)

LENS DRIVE

IC3452
8M-FLASH
(PROGRAM
MEMORY)

IC3453
64M
SDRAM
(WALK
MEMORY)

IC3451
SH MPEG
(MPEG COMPRESSION/
EXPANSION)

MPEG (NV-GS200SERIES ONLY)

EX INPUT

IC3501
(A/D)

IC3502,3
(SW&AMP)

AVIO

IC3301 AVIO
(D/A,A/D,AV OUT AMP)

IC3001 DUO
(VIDEO I/O,VCO,COMPRESOR,
SHUFFLE,SHUFFLE MEMORY,
AUDIO PROCESSOR,ECC,
ECC MEMORY,1394 I/F,
USB I/F,JPEG
COMPRESSION/EXPANSION,
CARD I/F,DAC)

IC3201
RIP
(MODULATION,
VITERBI,EQ,
MOTOR DRIVE
CONTROL)

IC5001
(HEAD AMP)

VIDEO

USB
TERMINAL

DV
TERMINAL

HEAD

IC2001
(CONTROL
MICROCOMPUTER)

DRIVE

IC2201
(CYL/CAP/LOADING
MOTOR DRIVE)

CYLINDER
MOTOR

CAPSTAN
MOTOR

LOADING
MOTOR

IC601
(CONTROLLER&
SIGNAL
PROCESSOR)

LCD

IC2008
(FLASH MEMORY)

IC2013
(2.4V REG)

IC2006
(EEPROM)

IC2012
(RESET)

IC2014
(3.4V REG)

CONTROL

POWER

IC1001
(POWER)

FLASH
CIRCUIT

FLASH
C.B.A.

HOT
SHOE

FLASH

(NV-GS200SERIES ONLY)

IC901
(CONTROLLER&
SIGNAL
PROCESSOR)

MONITOR
C.B.A.

2.5"LCD

EVF
C.B.A.

0.3"LCD

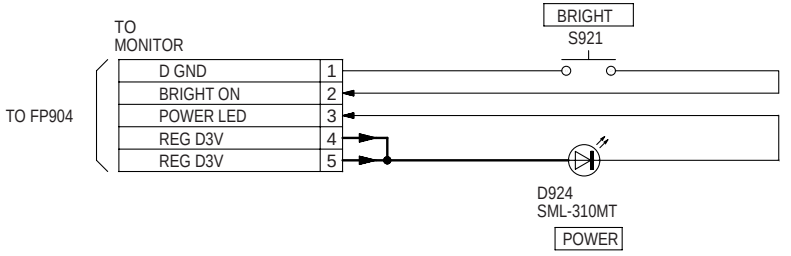
IC2601
(RTC)

SIDE L
C.B.A.

MAIN C.B.A.

NV-GS200SERIES,GS120SERIES
OVERALL SCHEMATIC DIAGRAM

(PL FLEX.CARD C.B.A.)



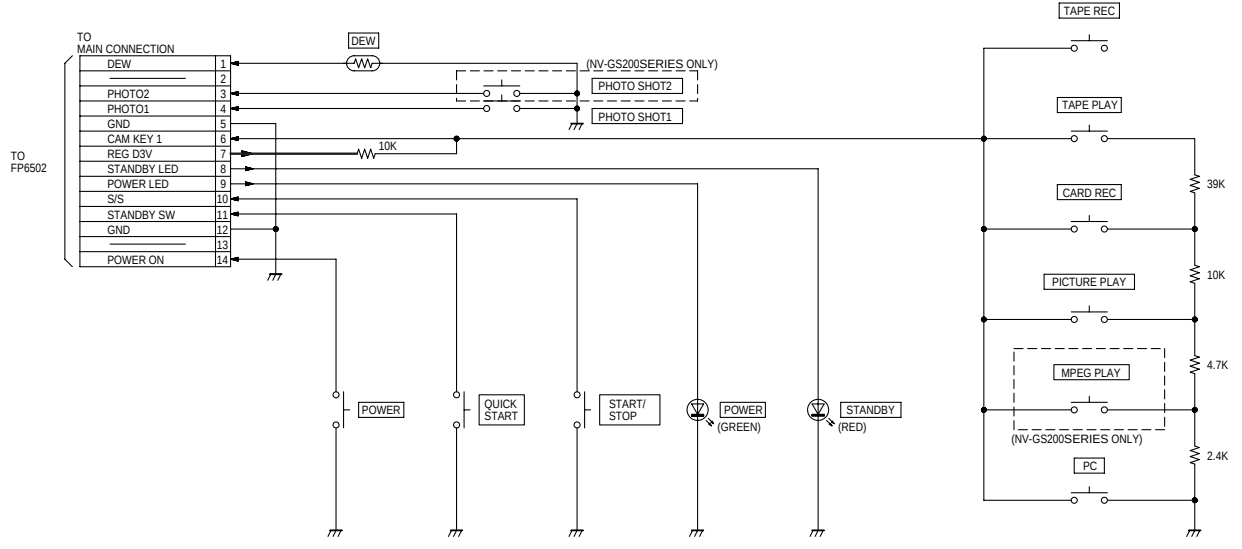
NV-GS200SERIES,GS120SERIES
PL FLEX. CARD SCHEMATIC DIAGRAM

B

A

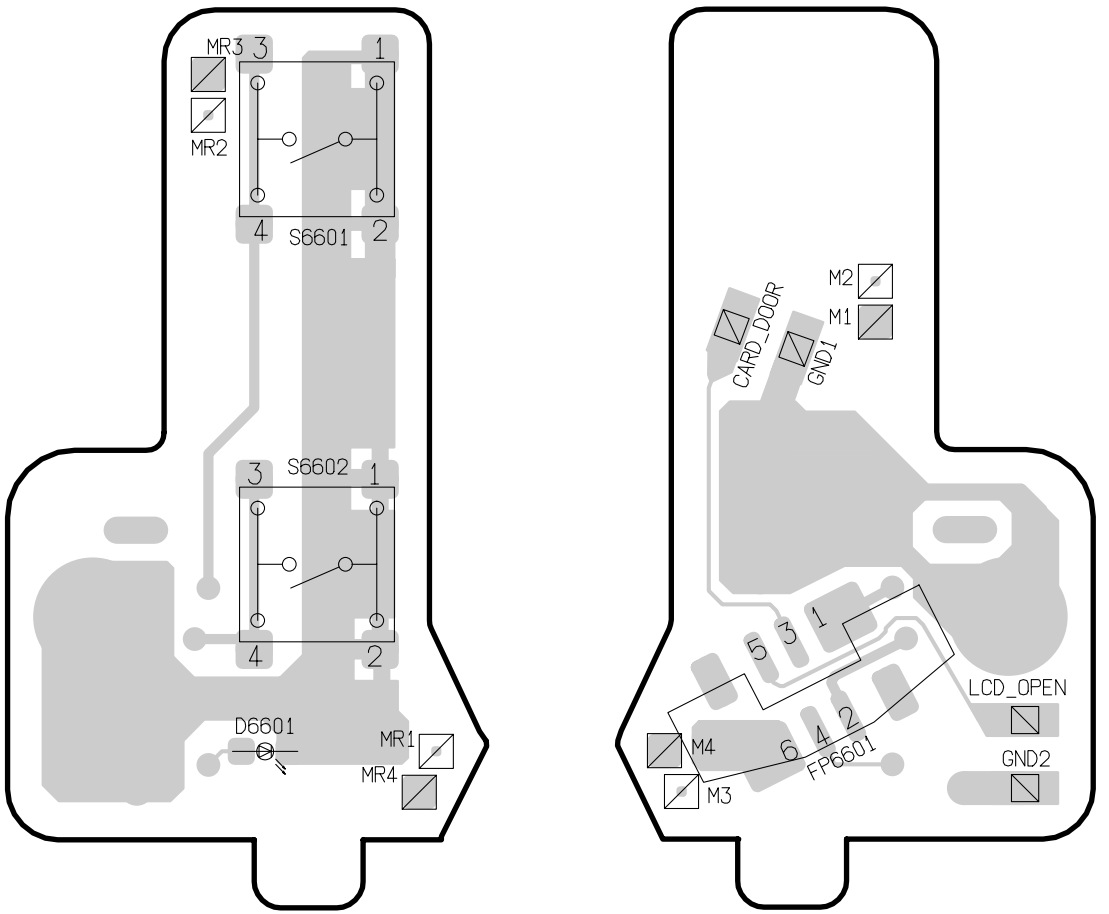
1 2 3 4

(REAR OPERATION UNIT)



NV-GS200SERIES,GS120SERIES
REAR OPERATION UNIT
SCHEMATIC DIAGRAM

(VEP001C9A)

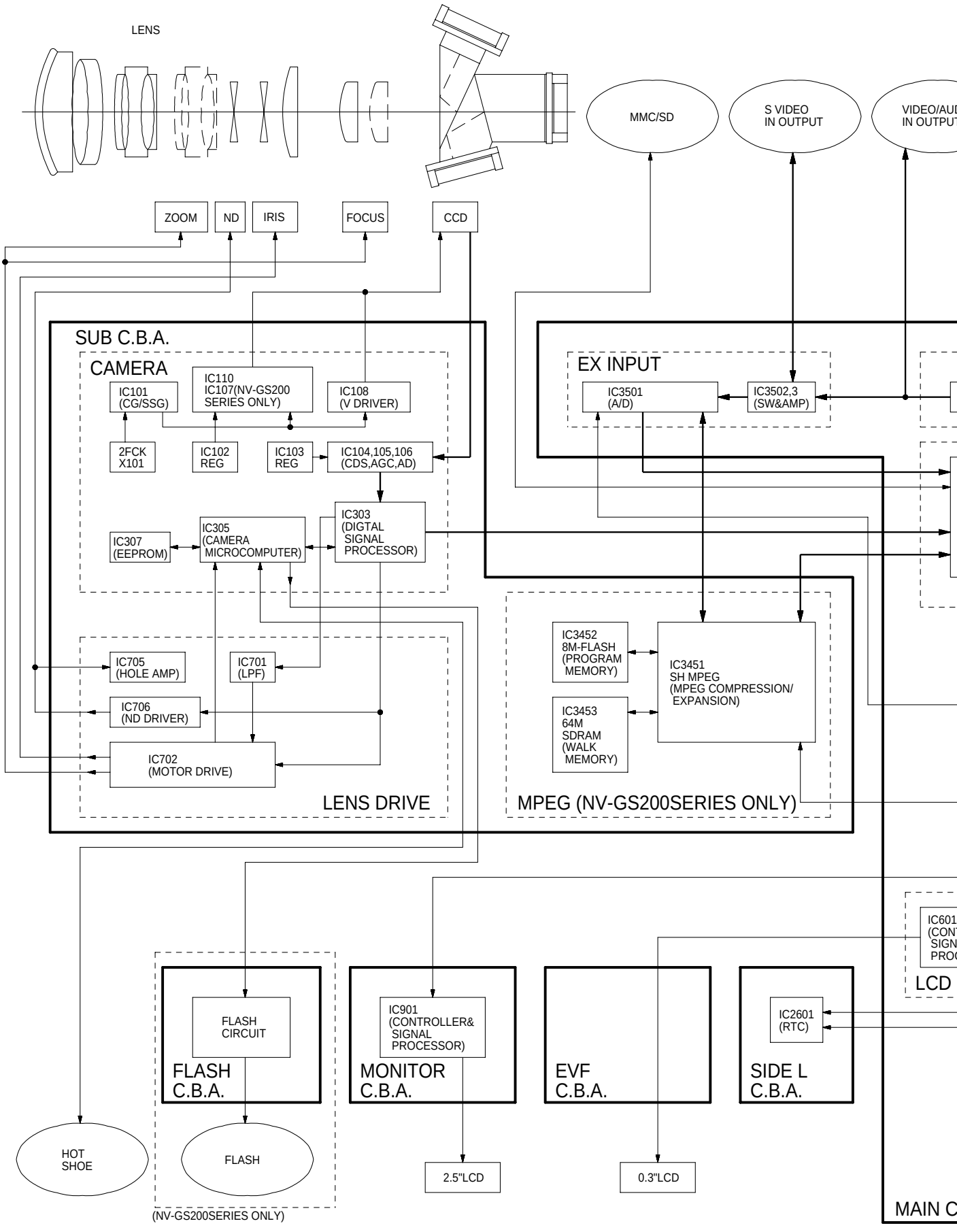


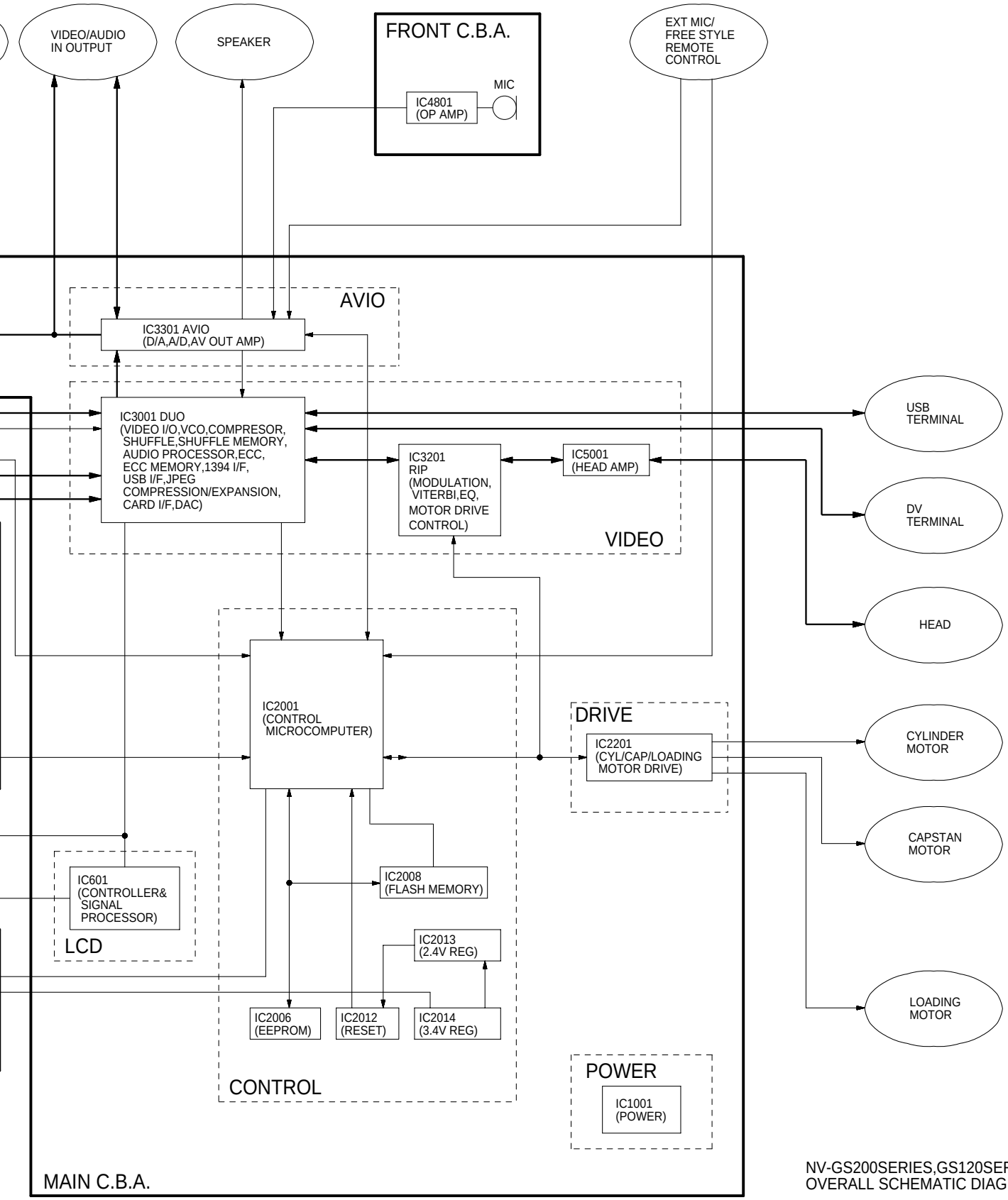
(COMPONENT SIDE) (FOIL SIDE)

NV-GS200SERIES,GS120SERIES
SIDE (R)(R RELAY) C.B.A.

10 SCHEMATIC DIAGRAM

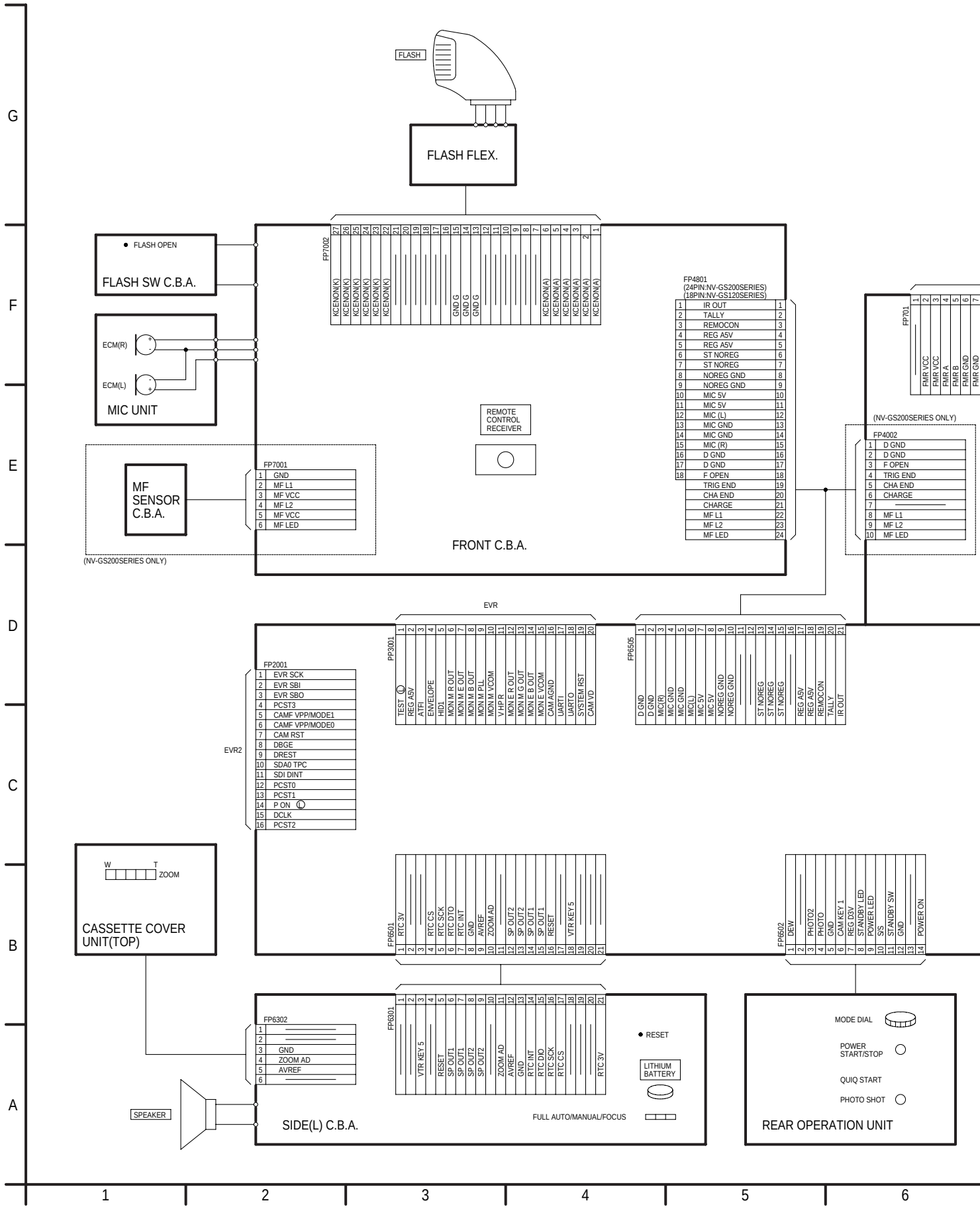
10.1. OVERALL SCHEMATIC DIAGRAM

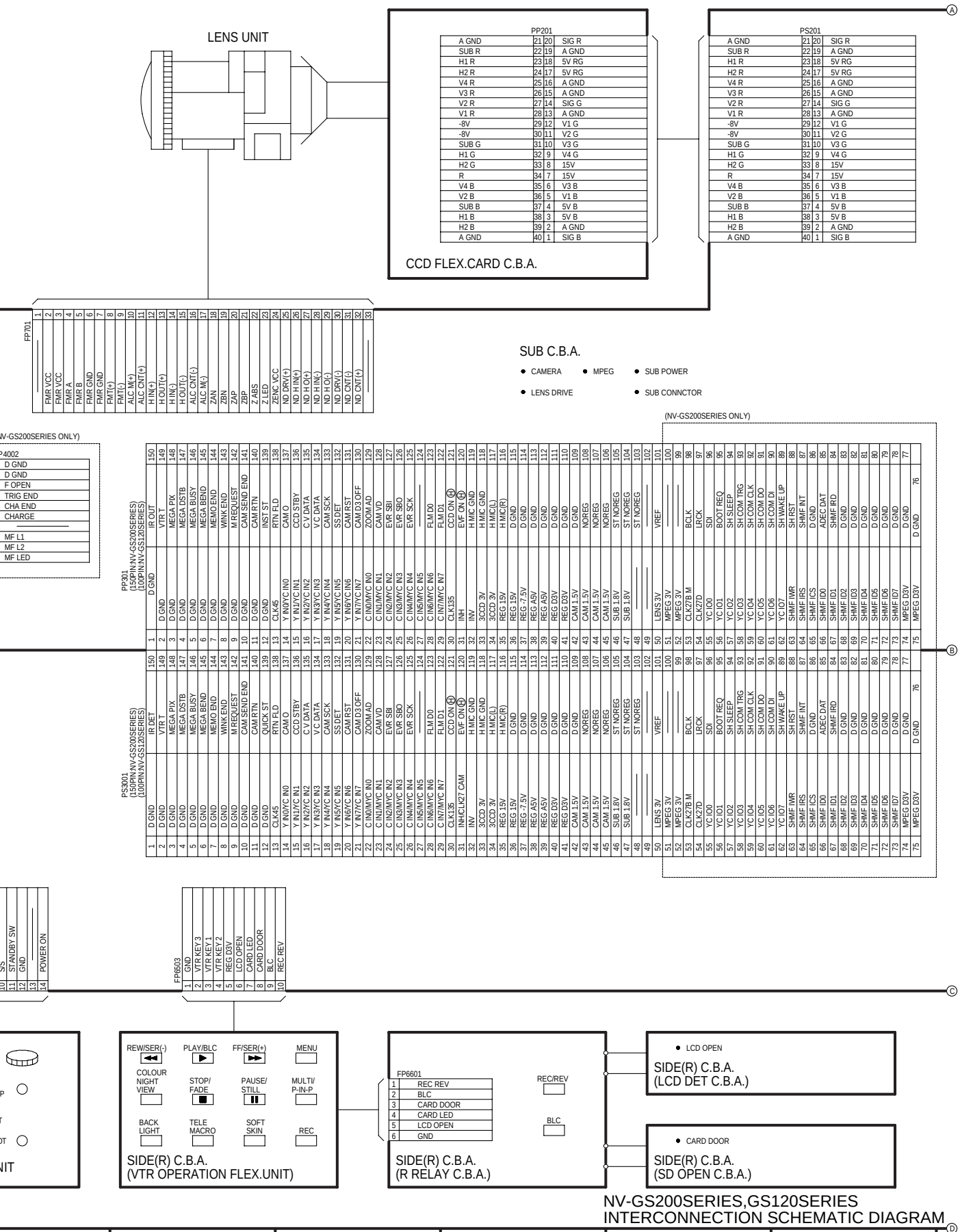


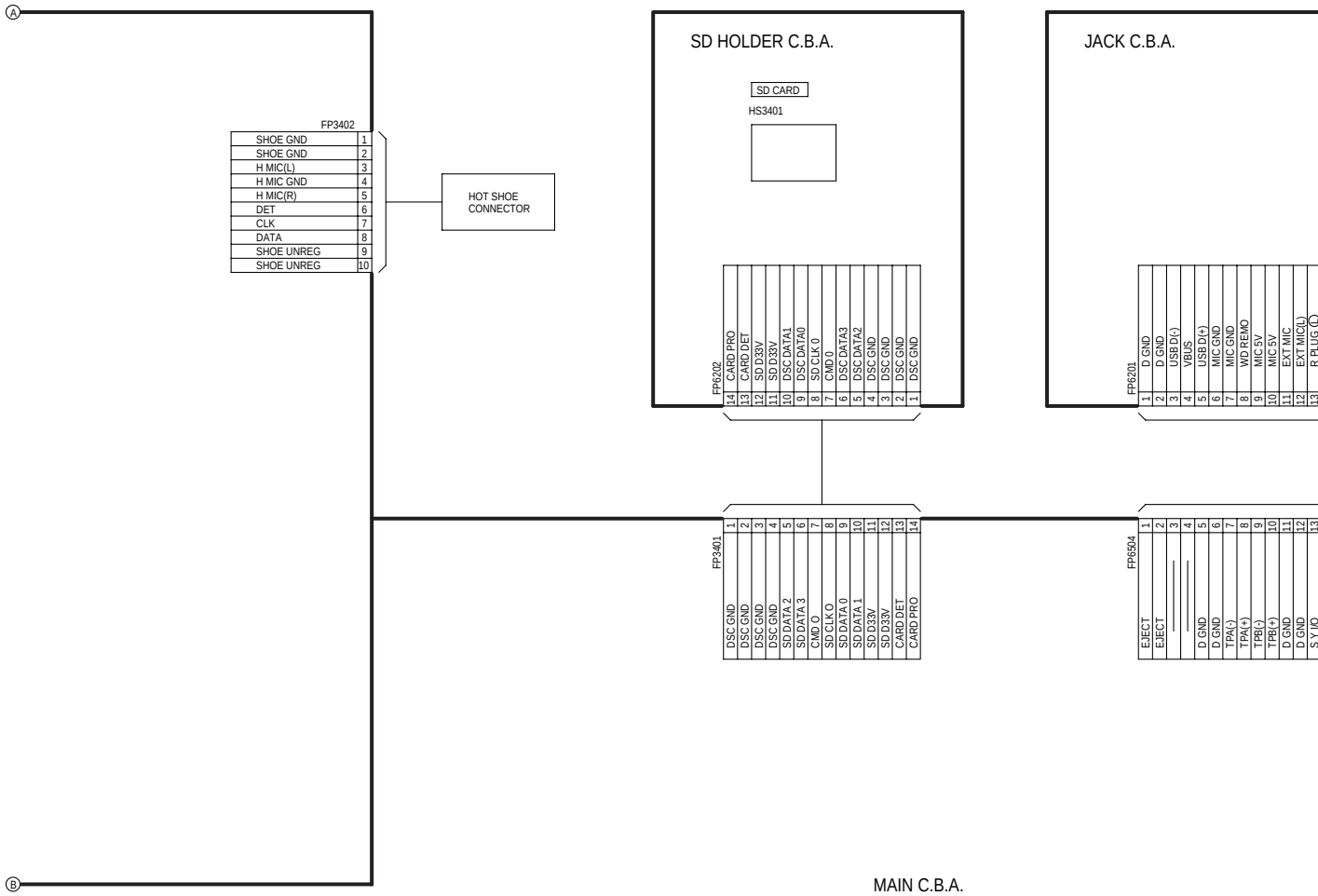


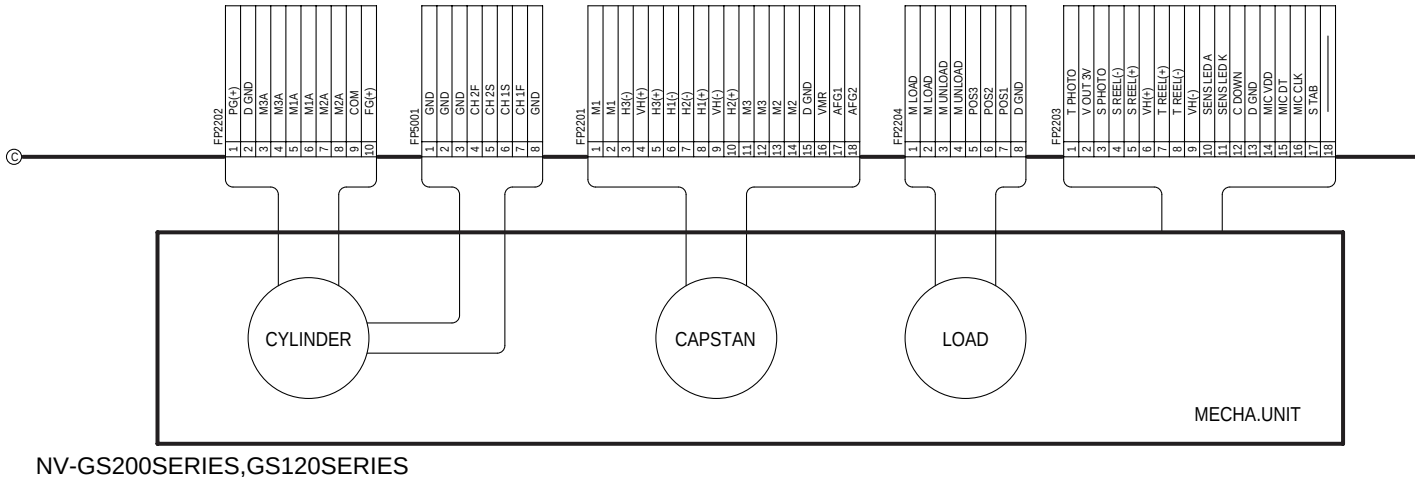
NV-GS200SERIES,GS120SERIES
OVERALL SCHEMATIC DIAGRAM

10.2. INTERCONNECTION SCHEMATIC DIAGRAM



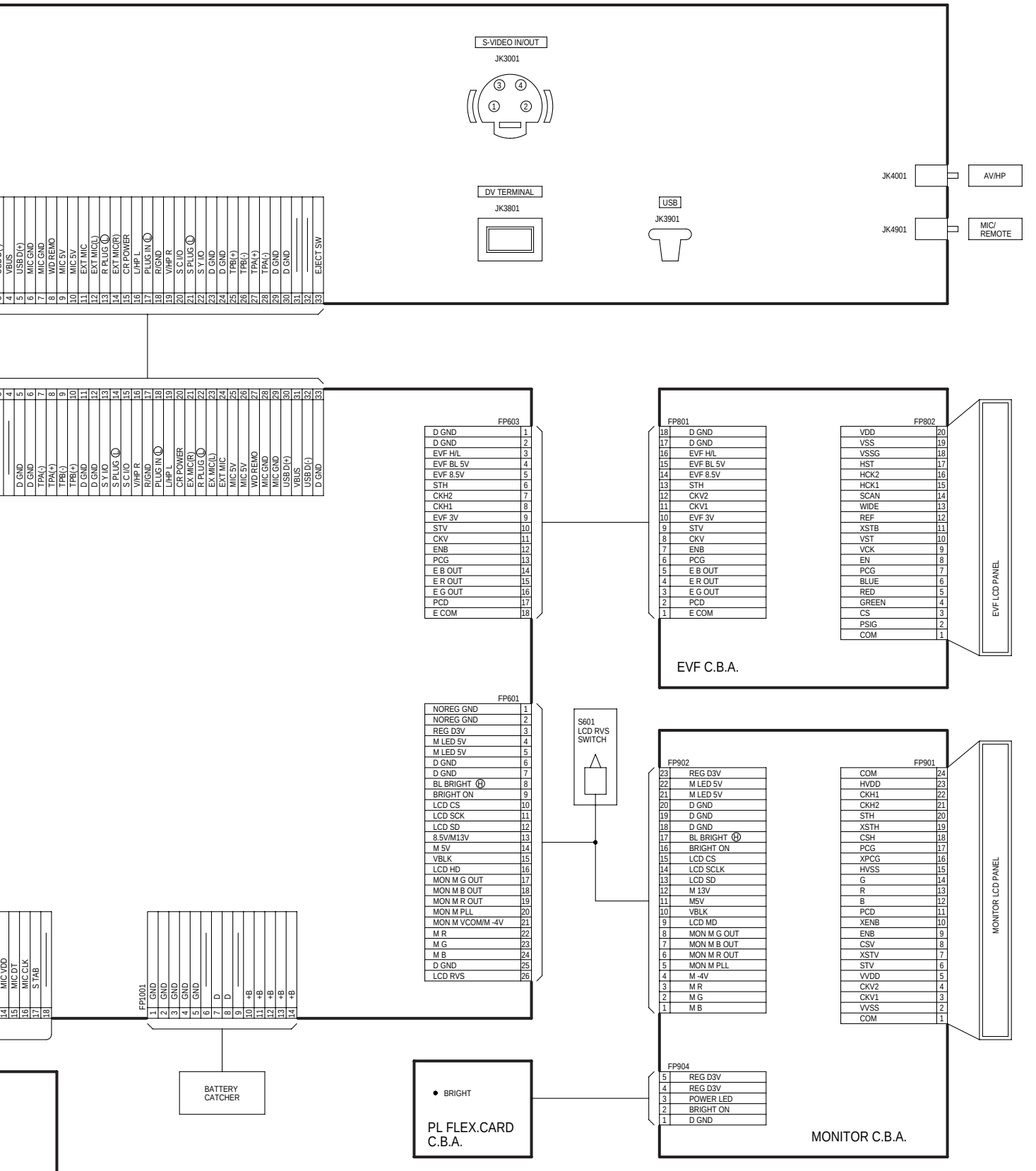

LENS UNIT
PP201
A GND 21 20 SIG R
SUB R 22 19 A GND
H1 R 23 18 5V RG
H2 R 24 17 5V RG
V4 R 25 16 A GND
V3 R 26 15 A GND
V2 R 27 14 SIG G
V1 R 28 13 A GND
-8V 29 12 V1 G
-8V 30 11 V2 G
SUB G 31 10 V3 G
H1 G 32 9 V4 G
H2 G 33 8 15V
R 34 7 15V
V4 B 35 6 V3 B
V2 B 36 5 V1 B
SUB B 37 4 5V B
H1 B 38 3 5V B
H2 B 39 2 A GND
A GND 40 1 SIG B
CCD FLEX.CARD C.B.A.
PS201
A GND 21 20 SIG R
SUB R 22 19 A GND
H1 R 23 18 5V RG
H2 R 24 17 5V RG
V4 R 25 16 A GND
V3 R 26 15 A GND
V2 R 27 14 SIG G
V1 R 28 13 A GND
-8V 29 12 V1 G
-8V 30 11 V2 G
SUB G 31 10 V3 G
H1 G 32 9 V4 G
H2 G 33 8 15V
R 34 7 15V
V4 B 35 6 V3 B
V2 B 36 5 V1 B
SUB B 37 4 5V B
H1 B 38 3 5V B
H2 B 39 2 A GND
A GND 40 1 SIG B
FP701
FMR VCC
FMR VCC
FMR A
FMR B
FMR GND
FMR GND
FMT(+)
FMT(-)
ALC M(+)
ALC CNT(+)
H IN(+)
H OUT(+)
H IN(-)
H OUT(-)
ALC CNT(-)
ALC M(-)
ZAN
ZBN
ZAP
ZBP
Z ABS
Z LED
ZENC VCC
ND DRV(+)
ND H IN(+)
ND H O(+)
ND H IN(-)
ND H O(-)
ND DRV(-)
ND CNT(+)
ND CNT(-)
SUB C.B.A.
CAMERA
MPEG
SUB POWER
LENS DRIVE
SUB CONNCTOR
(NV-GS200SERIES ONLY)
P4002
D GND
D GND
F OPEN
TRIG END
CHA END
CHARGE
MF L1
MF L2
MF LED
PP301
(150PIN:NV-GS200SERIES)
(100PIN:NV-GS120SERIES)
PS3001
(150PIN:NV-GS200SERIES)
(100PIN:NV-GS120SERIES)
(NV-GS200SERIES ONLY)
FP6603
GND
VTR KEY 3
VTR KEY 1
VTR KEY 2
REG D3V
LCD OPEN
CARD LED
CARD DOOR
BLC
REC REV
SYS
STANDBY SW
GND
POWER ON
REW/SER(-)
PLAY/BLC
FF/SER(+)
MENU
COLOUR NIGHT VIEW
STOP/ FADE
PAUSE/ STILL
MULTI/ P-IN-P
BACK LIGHT
TELE MACRO
SOFT SKIN
REC
SIDE(R) C.B.A.
(VTR OPERATION FLEX.UNIT)
FP6601
REC REV
BLC
CARD DOOR
CARD LED
LCD OPEN
GND
REC/REV
BLC
SIDE(R) C.B.A.
(R RELAY C.B.A.)
LCD OPEN
SIDE(R) C.B.A.
(LCD DET C.B.A.)
CARD DOOR
SIDE(R) C.B.A.
(SD OPEN C.B.A.)
NV-GS200SERIES,GS120SERIES
INTERCONNECTION SCHEMATIC DIAGRAM
6
7
8
9
10
11





NV-GS200SERIES,GS120SERIES
INTERCONNECTION SCHEMATIC DIAGRAM

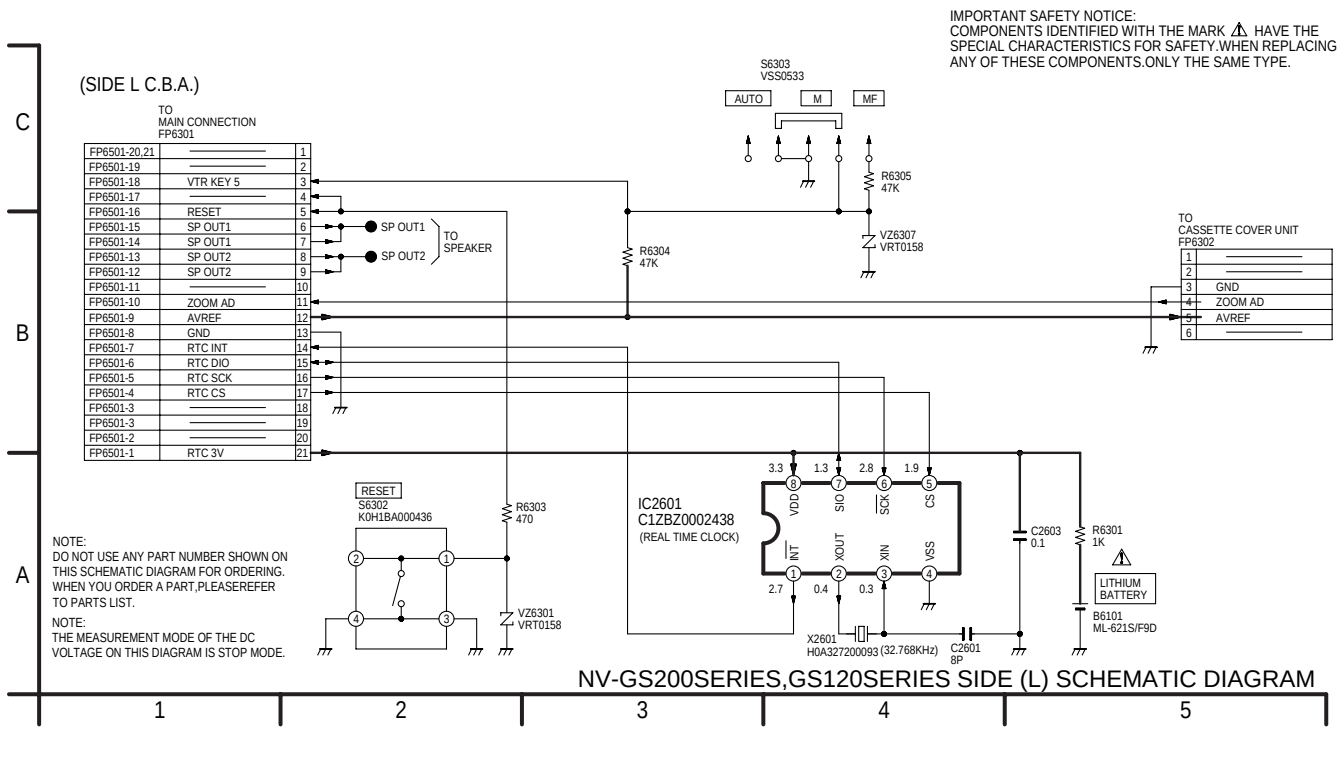
12 13 14 15 16 17



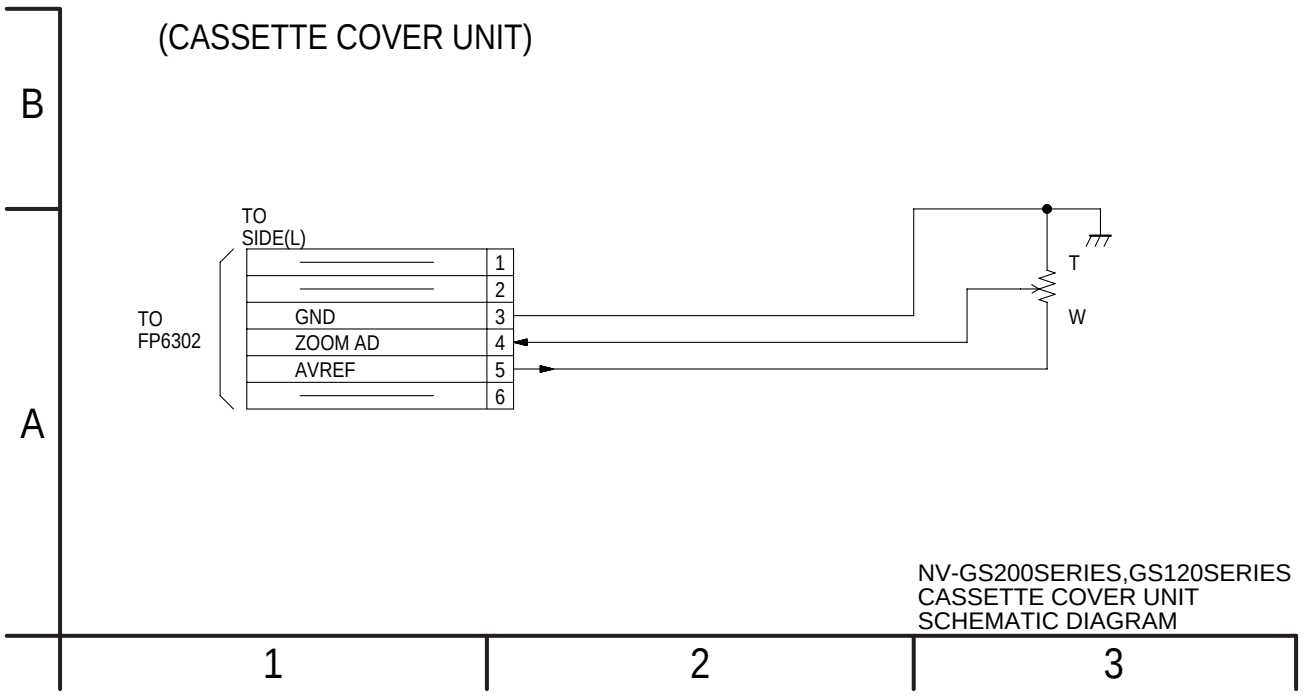
NV-GS200SERIES,GS120SERIES
INTERCONNECTION SCHEMATIC DIAGRAM

17 | 18 | 19 | 20 | 21 | 22

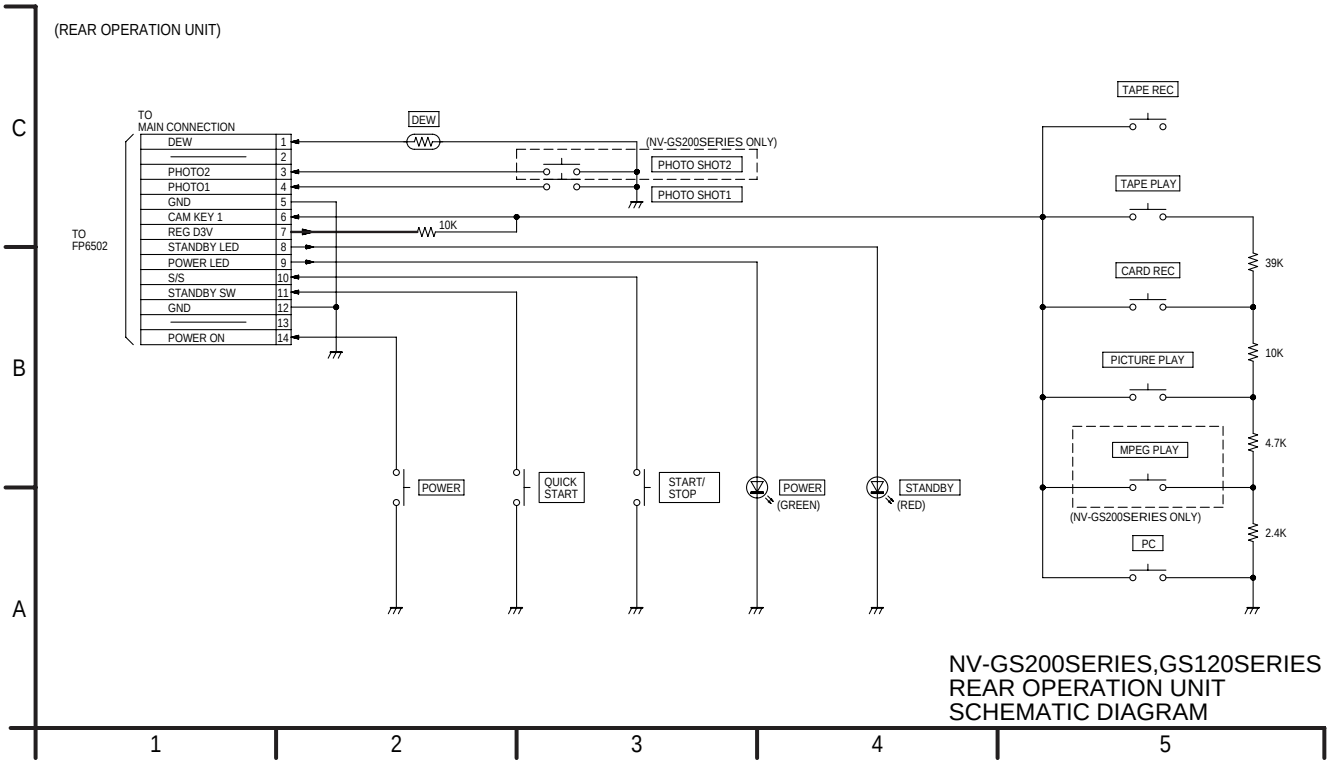
10.3. SIDE (L) SCHEMATIC DIAGRAM



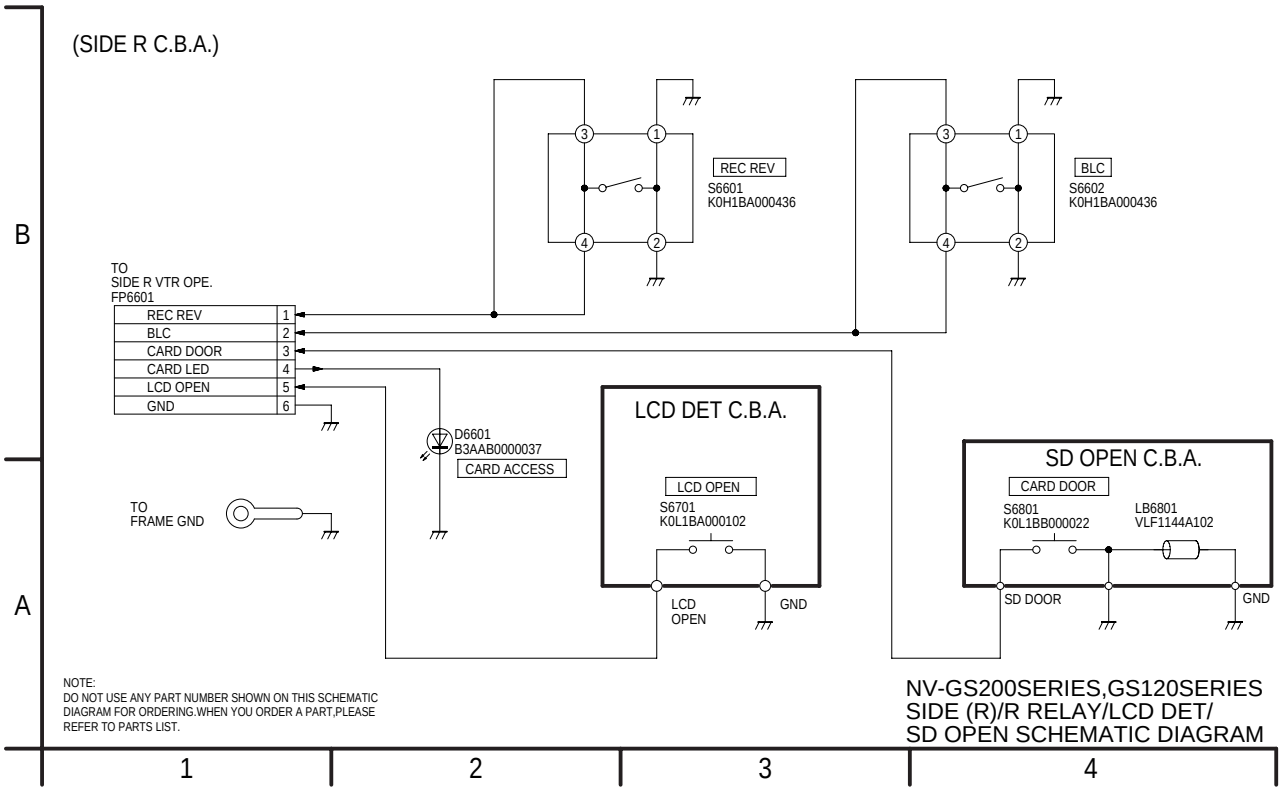
10.4. CASSETTE COVER UNIT SCHEMATIC DIAGRAM



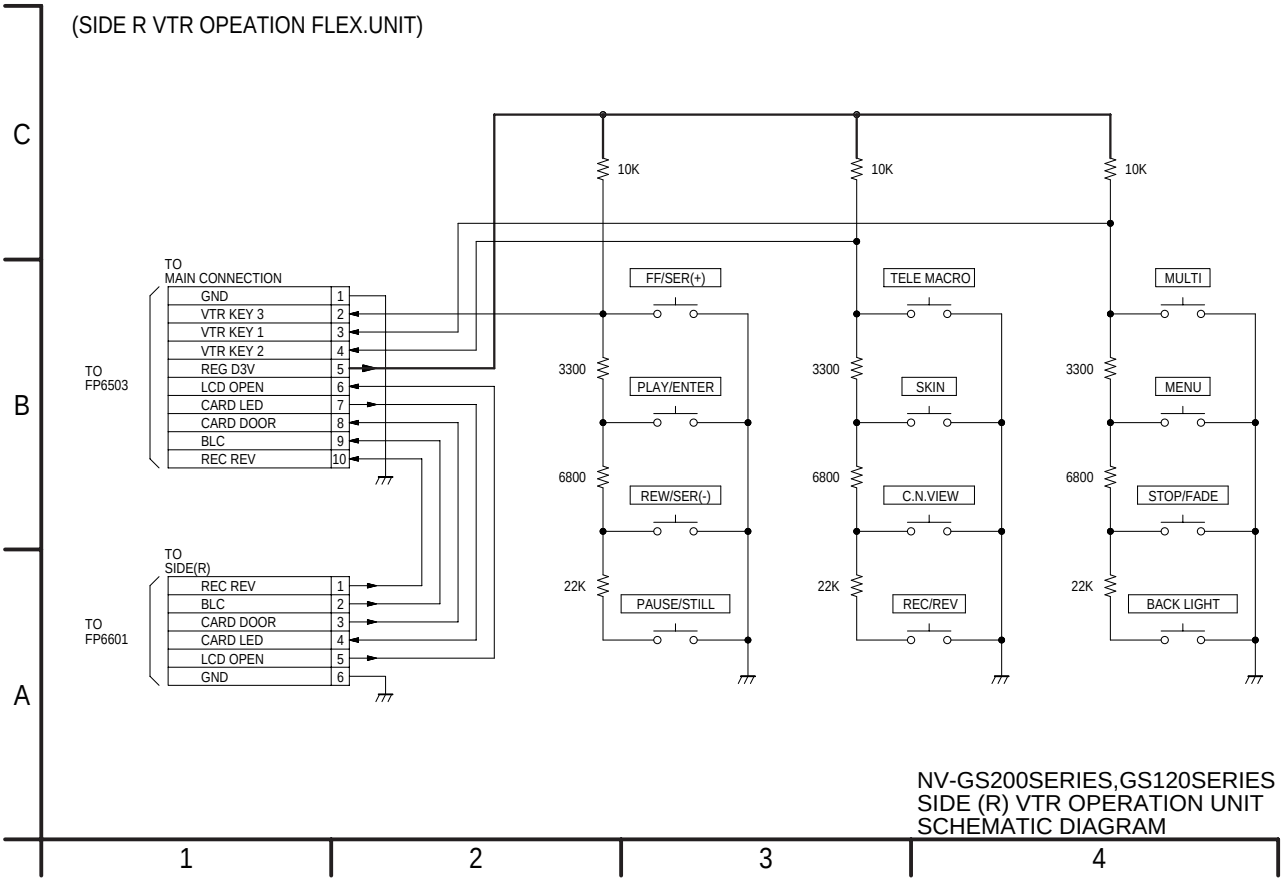
10.5. REAR OPERATION SCHEMATIC DIAGRAM



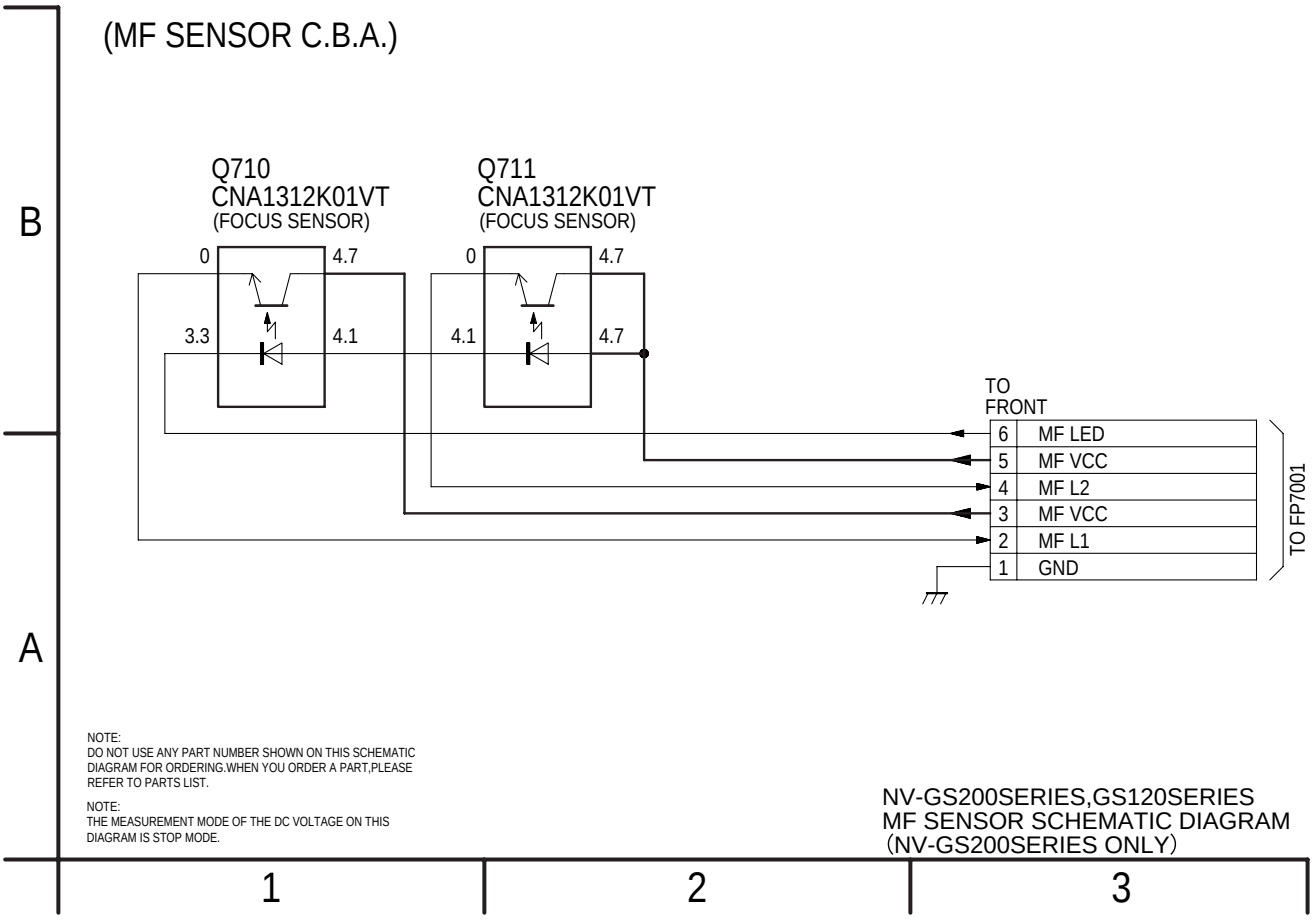
10.6. SIDE (R) / R RELAY / LCD DET / SD OPEN SCHEMATIC DIAGRAM



10.7. SIDE (R) VTR OPERATION UNIT SCHEMATIC DIAGRAM



10.8. MF SENSOR SCHEMATIC DIAGRAM (NV-GS200SERIES ONLY)

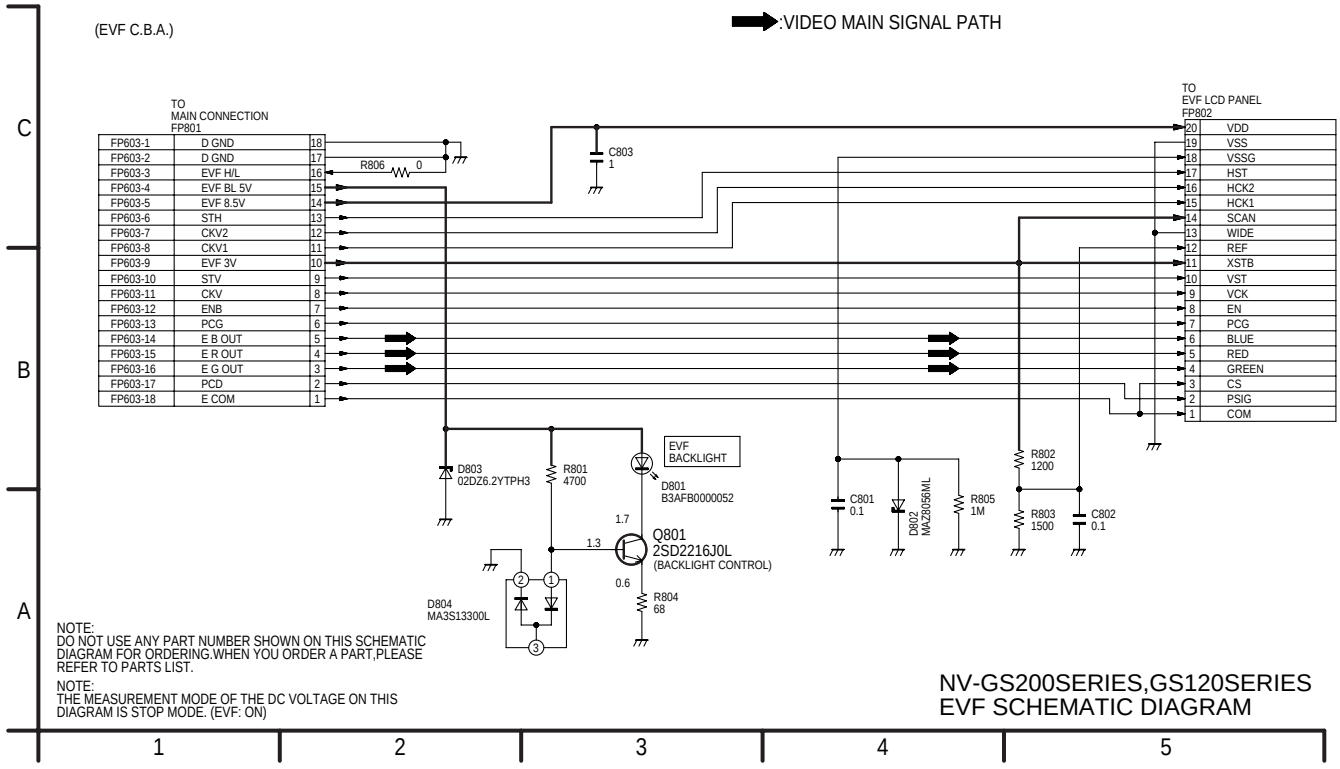


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

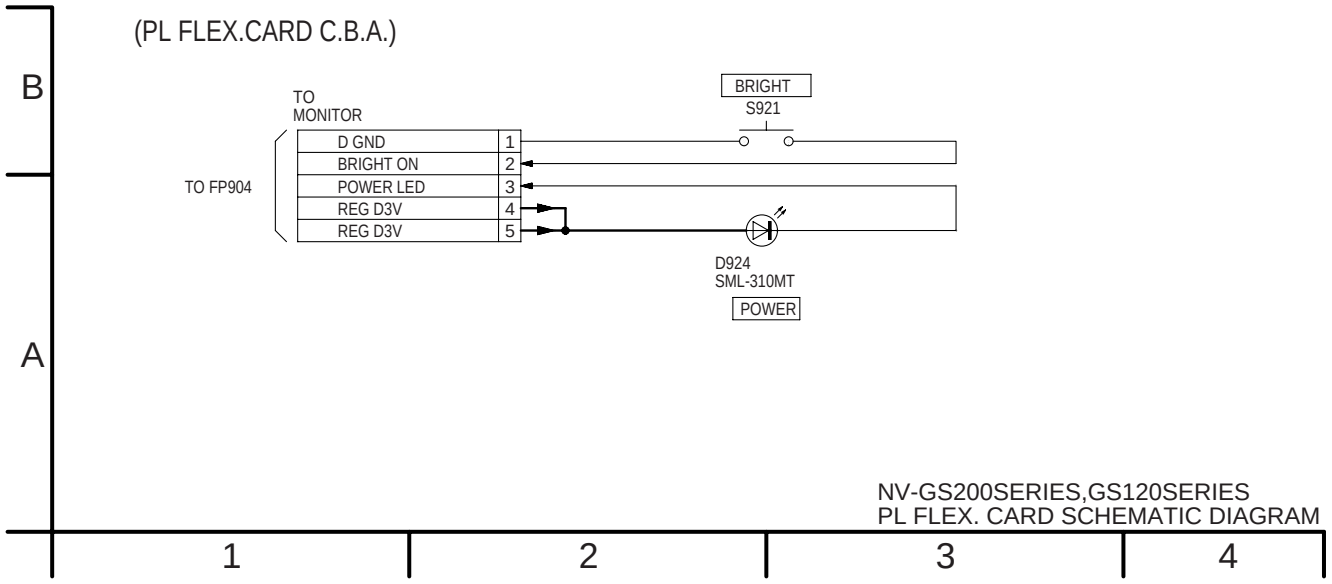
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-GS200SERIES,GS120SERIES
MF SENSOR SCHEMATIC DIAGRAM
（NV-GS200SERIES ONLY）

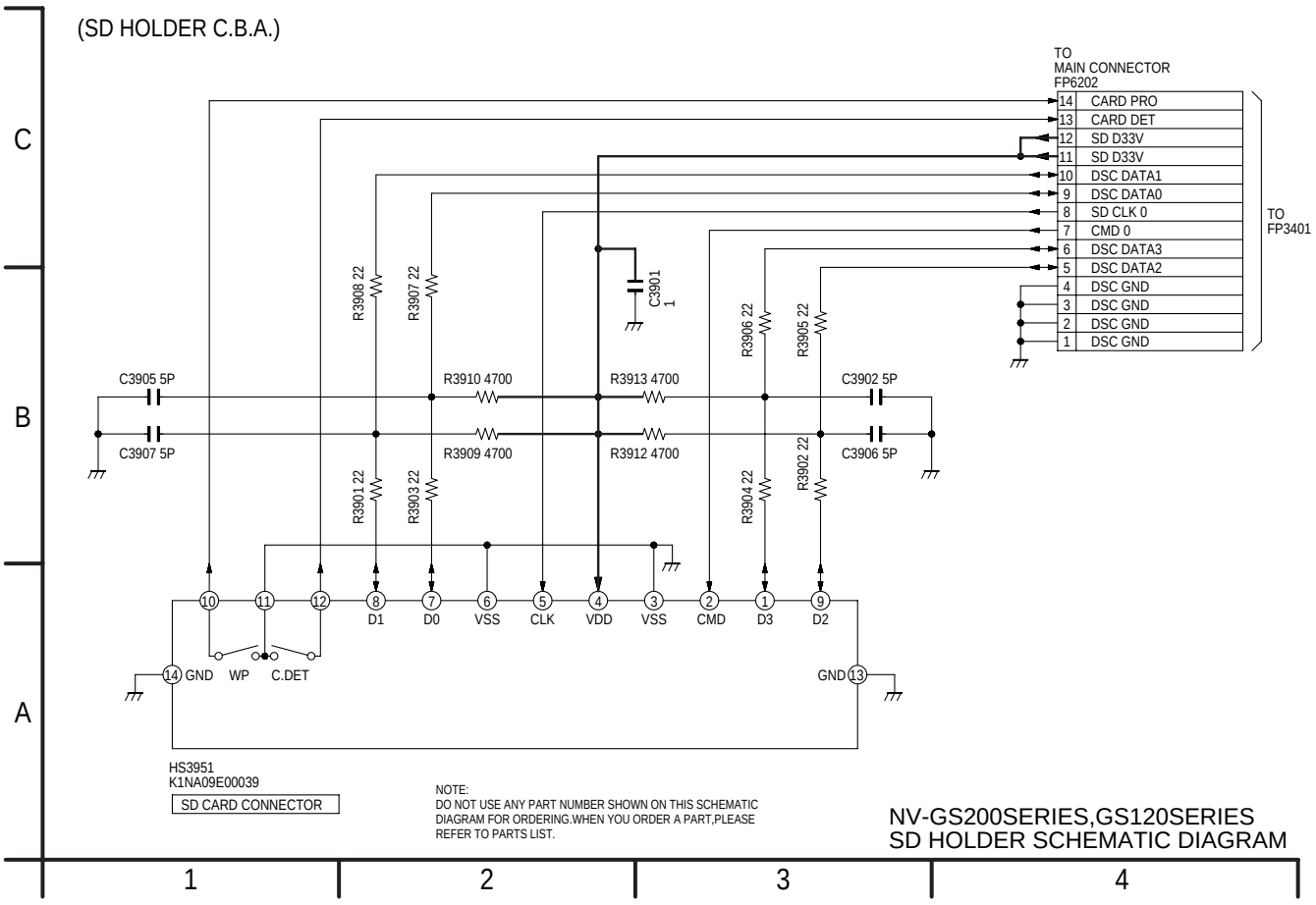
10.9. EVF SCHEMATIC DIAGRAM



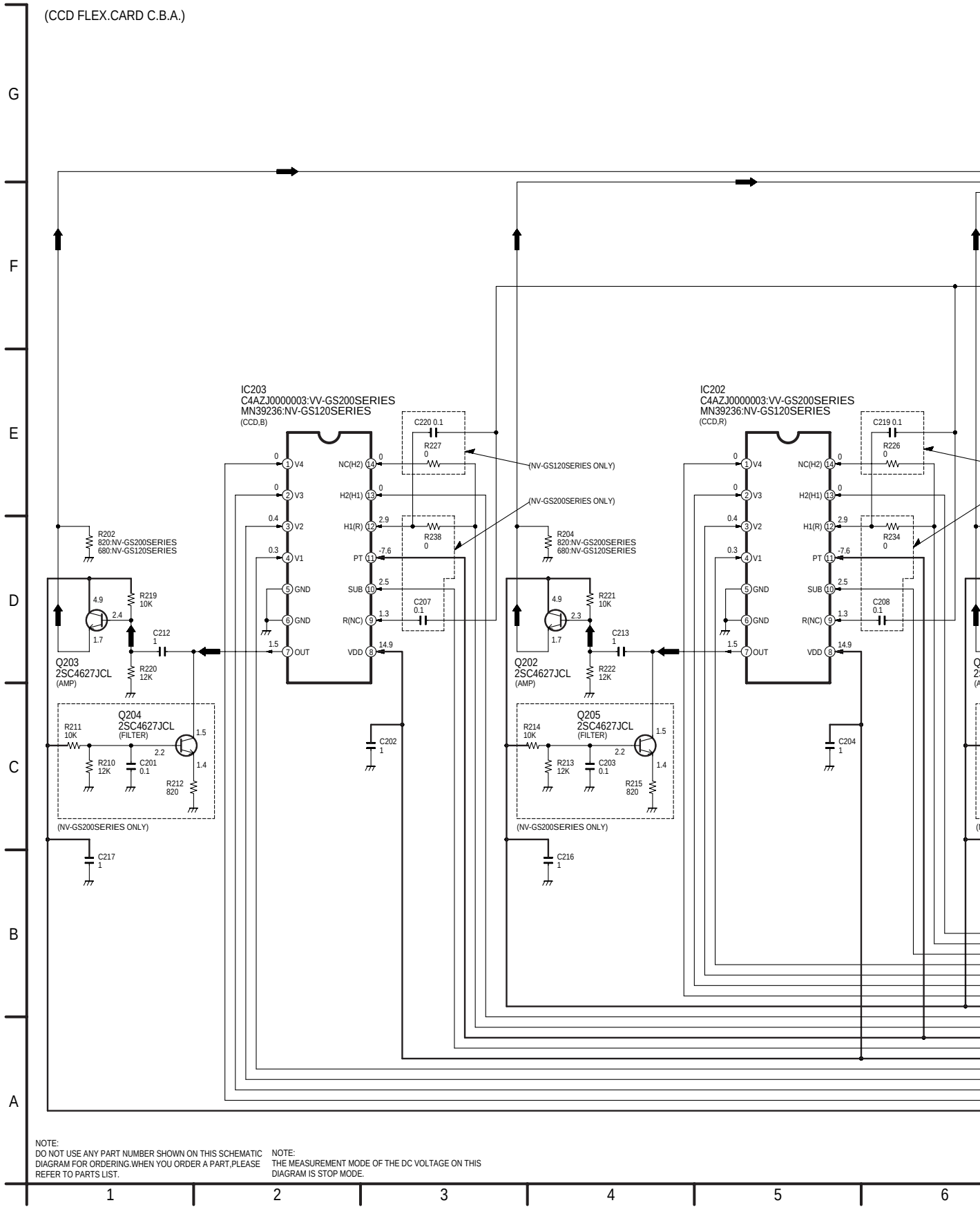
10.10. PL FLEX. CARD SCHEMATIC DIAGRAM



10.11. SD HOLDER SCHEMATIC DIAGRAM



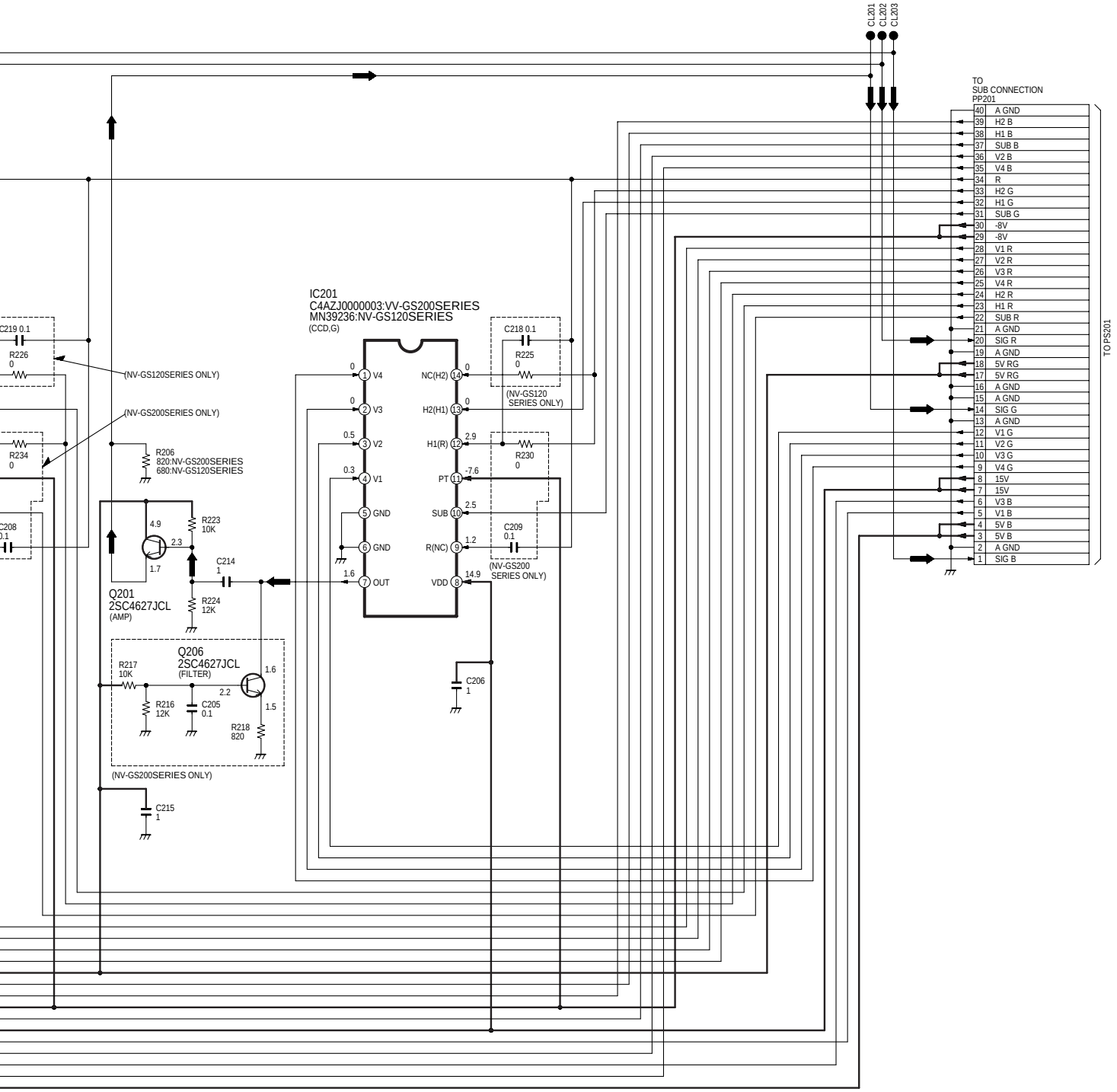
10.12. CCD FLEX. CARD SCHEMATIC DIAGRAM



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

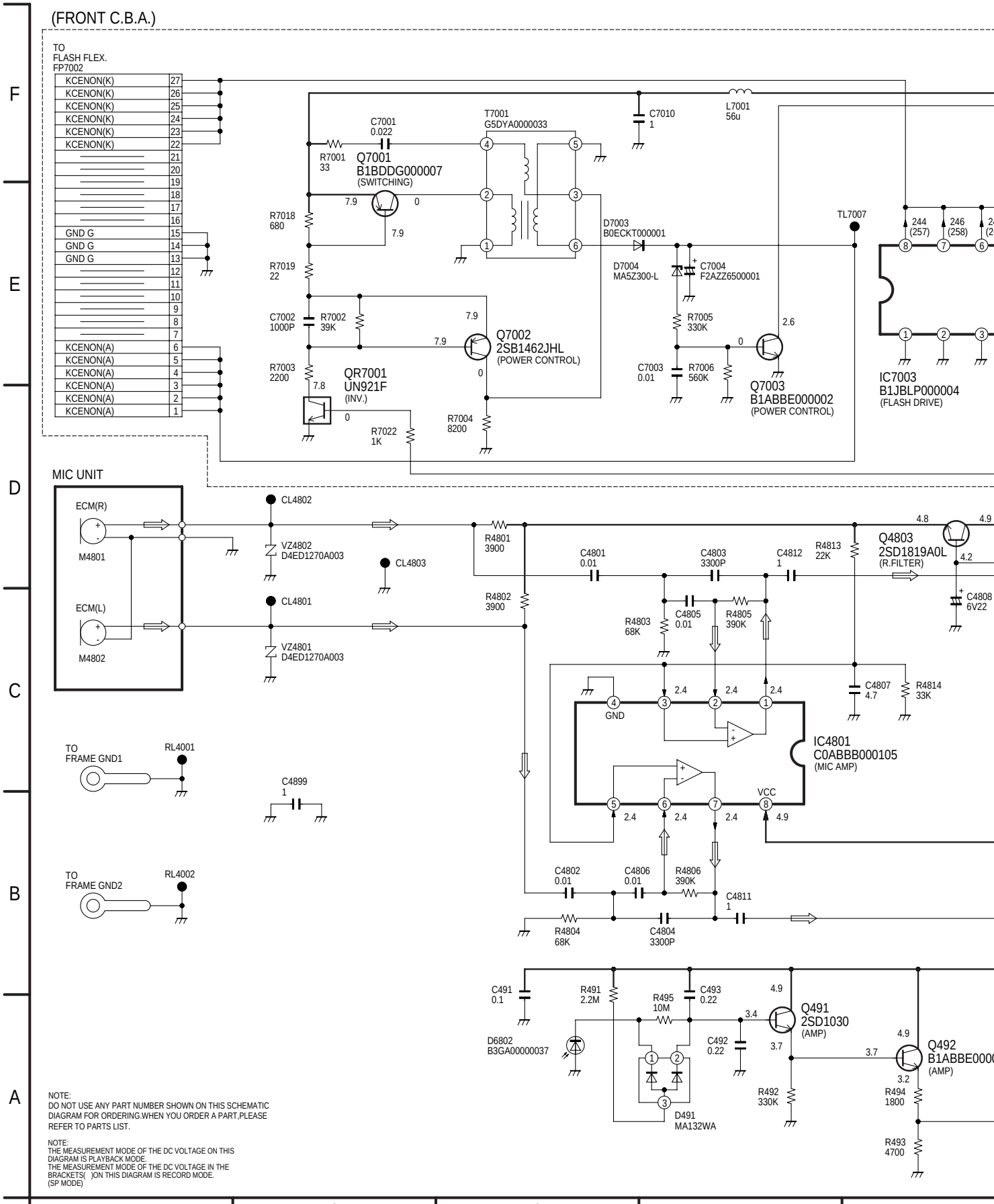
:VIDEO MAIN SIGNAL PATH

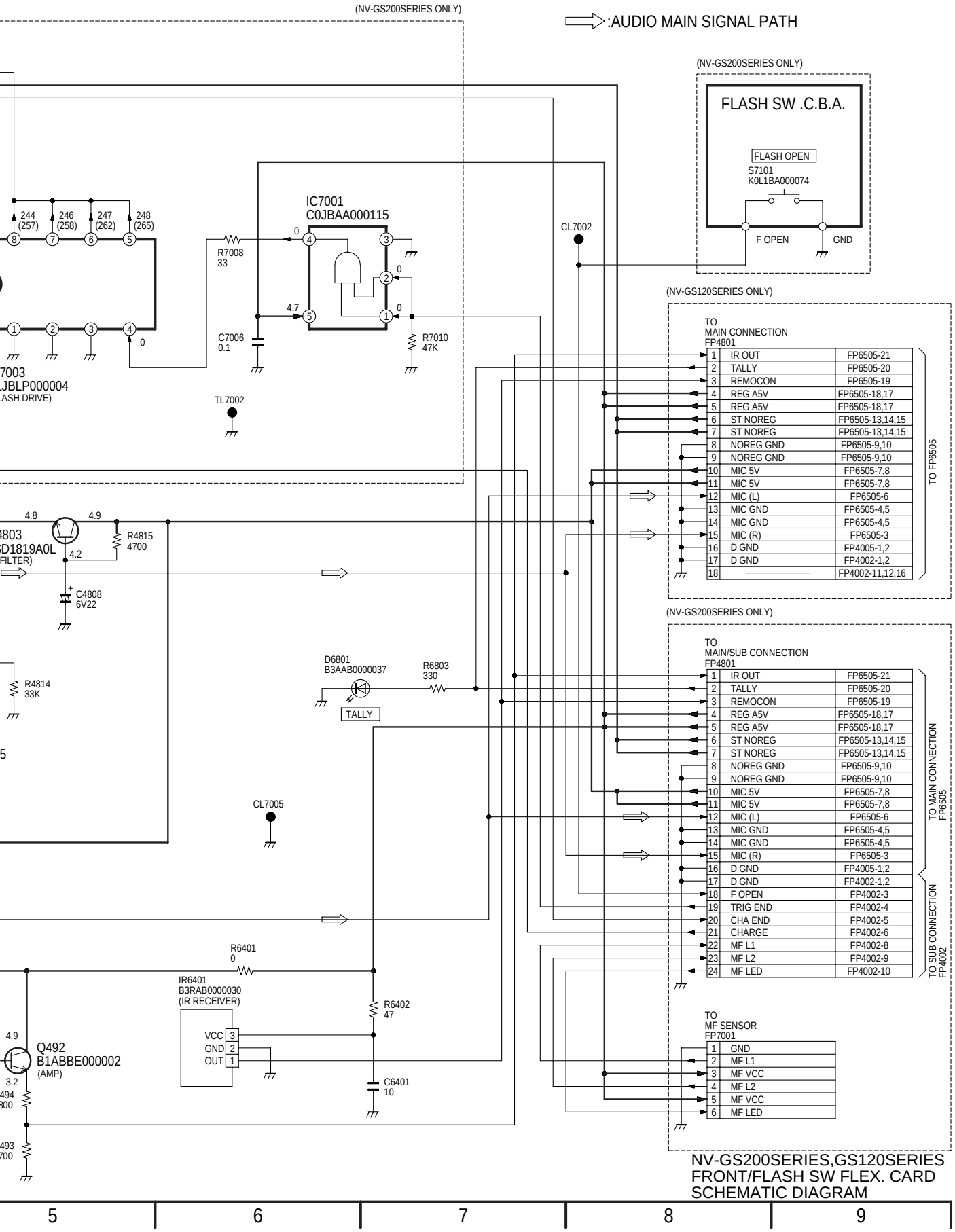


NV-GS200SERIES,GS120SERIES
CCD FLEX. CARD
SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

10.13. FRONT / FLASH SW FLEX. CARD SCHEMATIC DIAGRAM

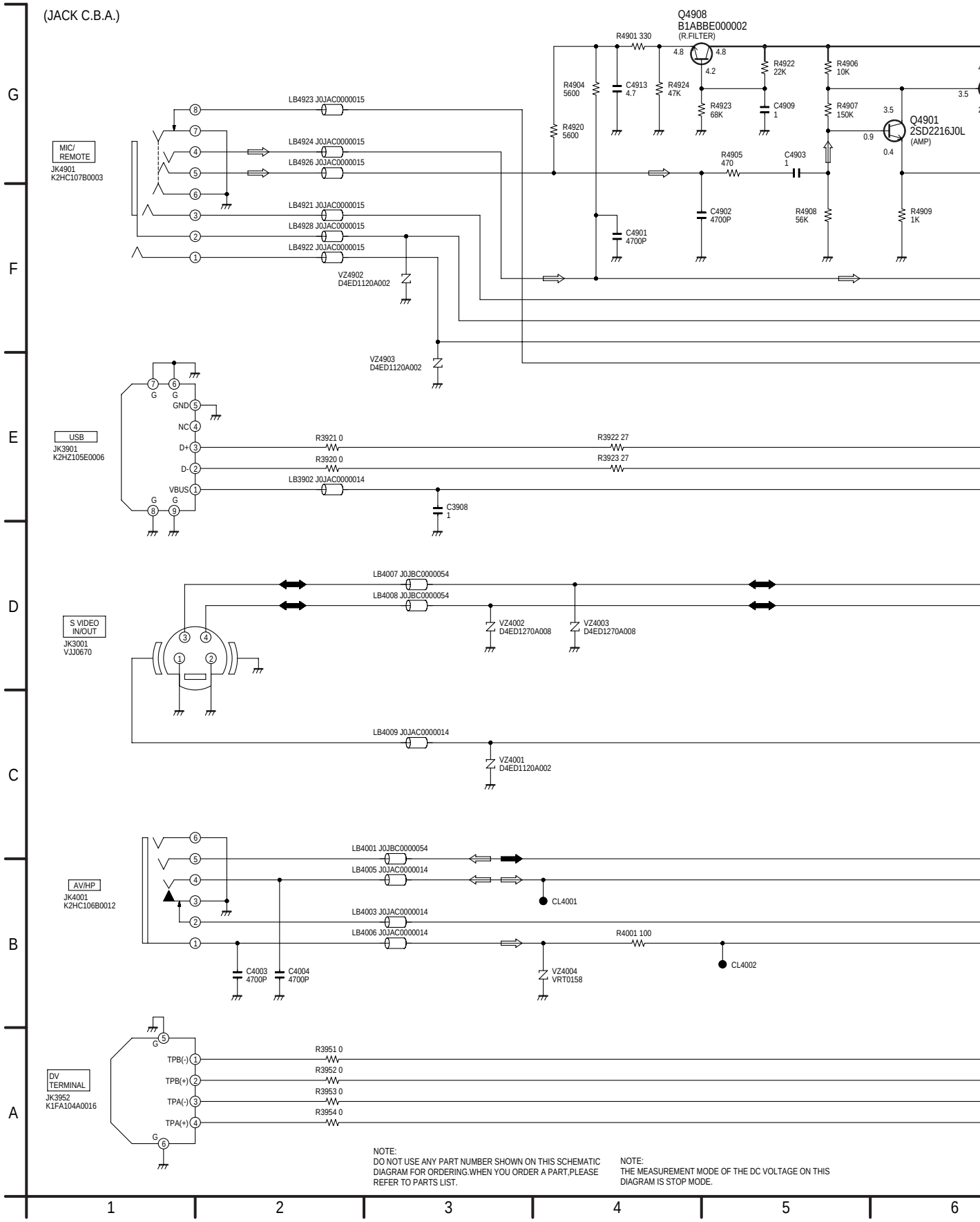


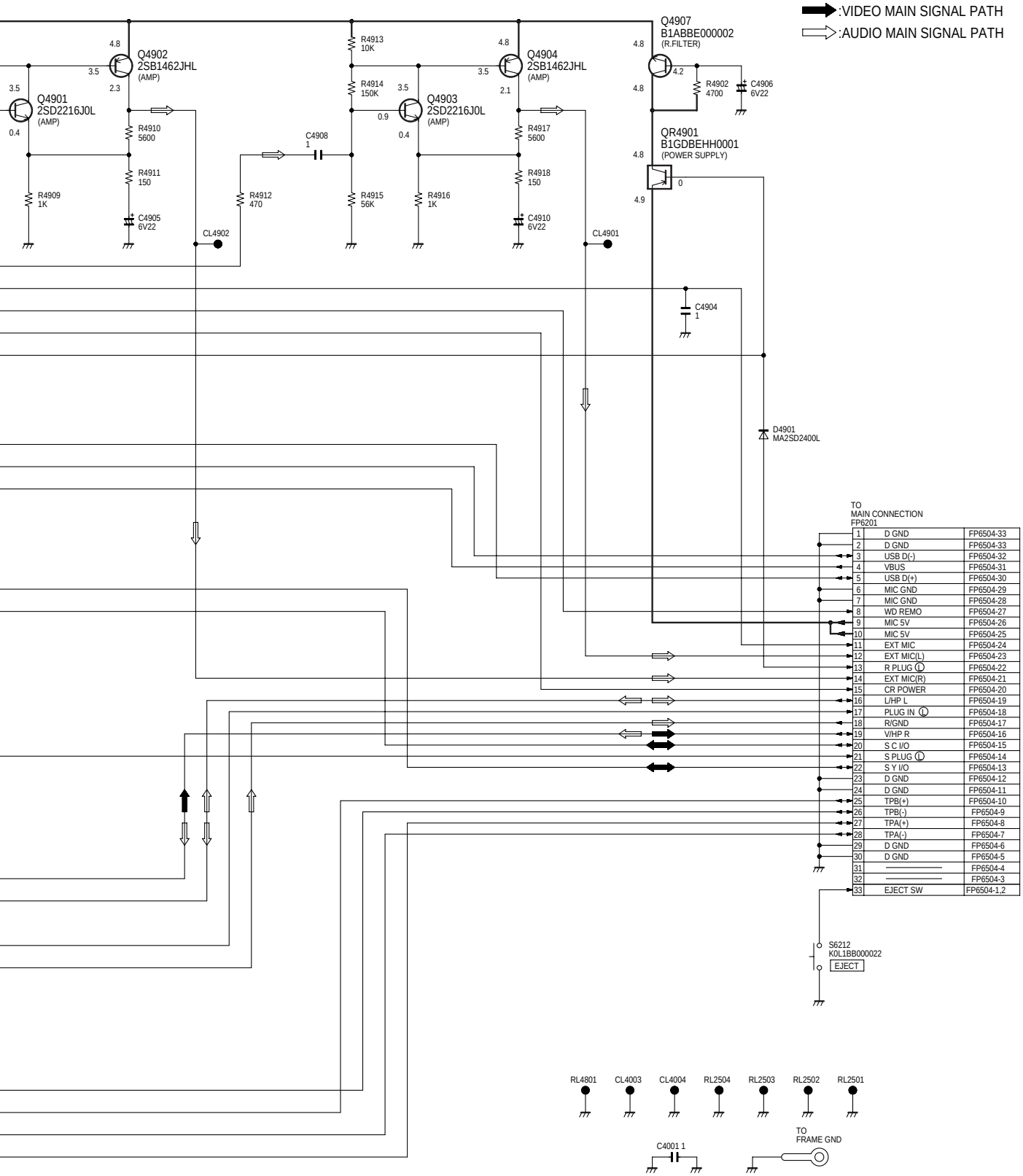


NV-GS200SERIES,GS120SERIES
FRONT/FLASH SW FLEX. CARD
SCHEMATIC DIAGRAM

5 | 6 | 7 | 8 | 9

10.14. JACK SCHEMATIC DIAGRAM

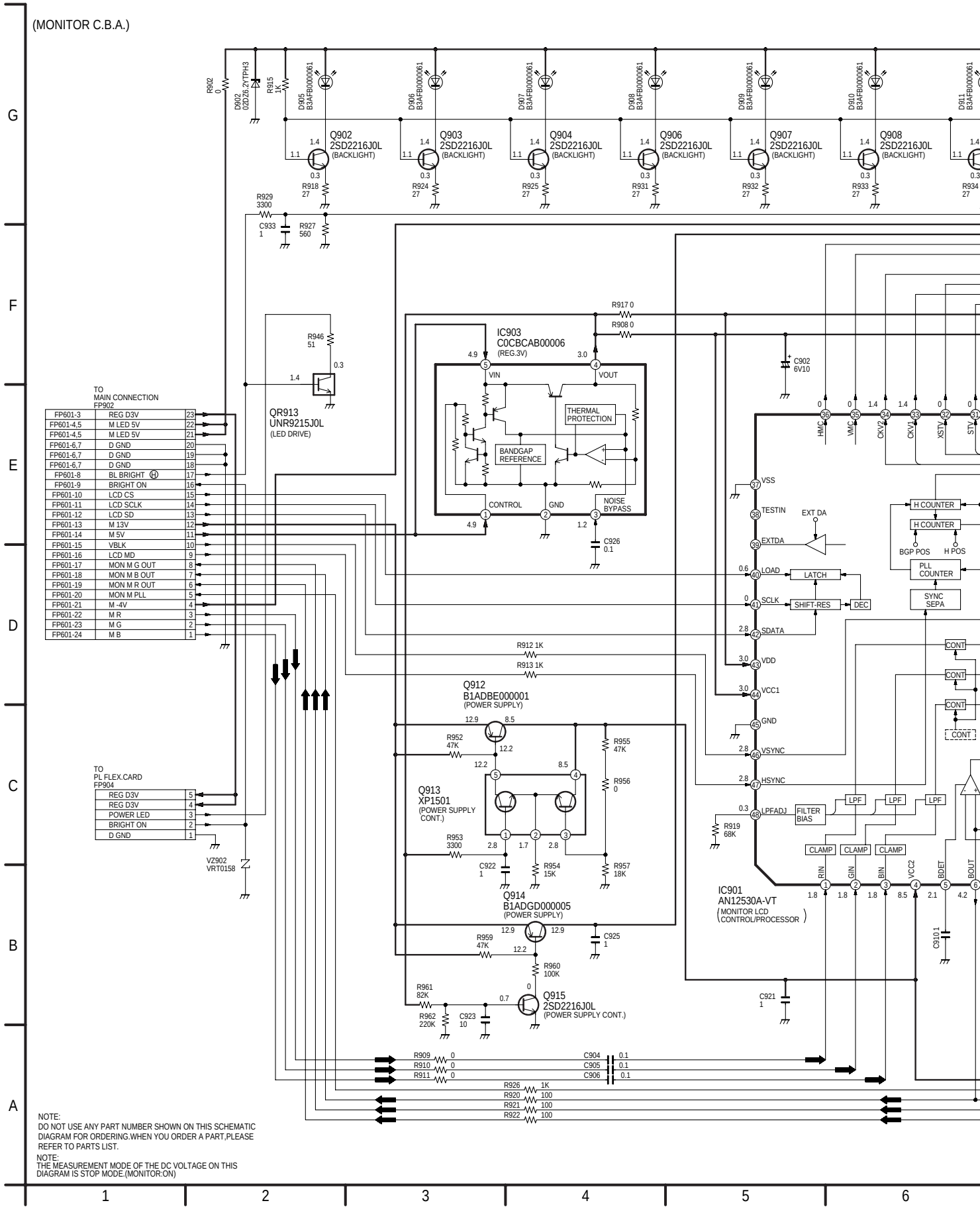


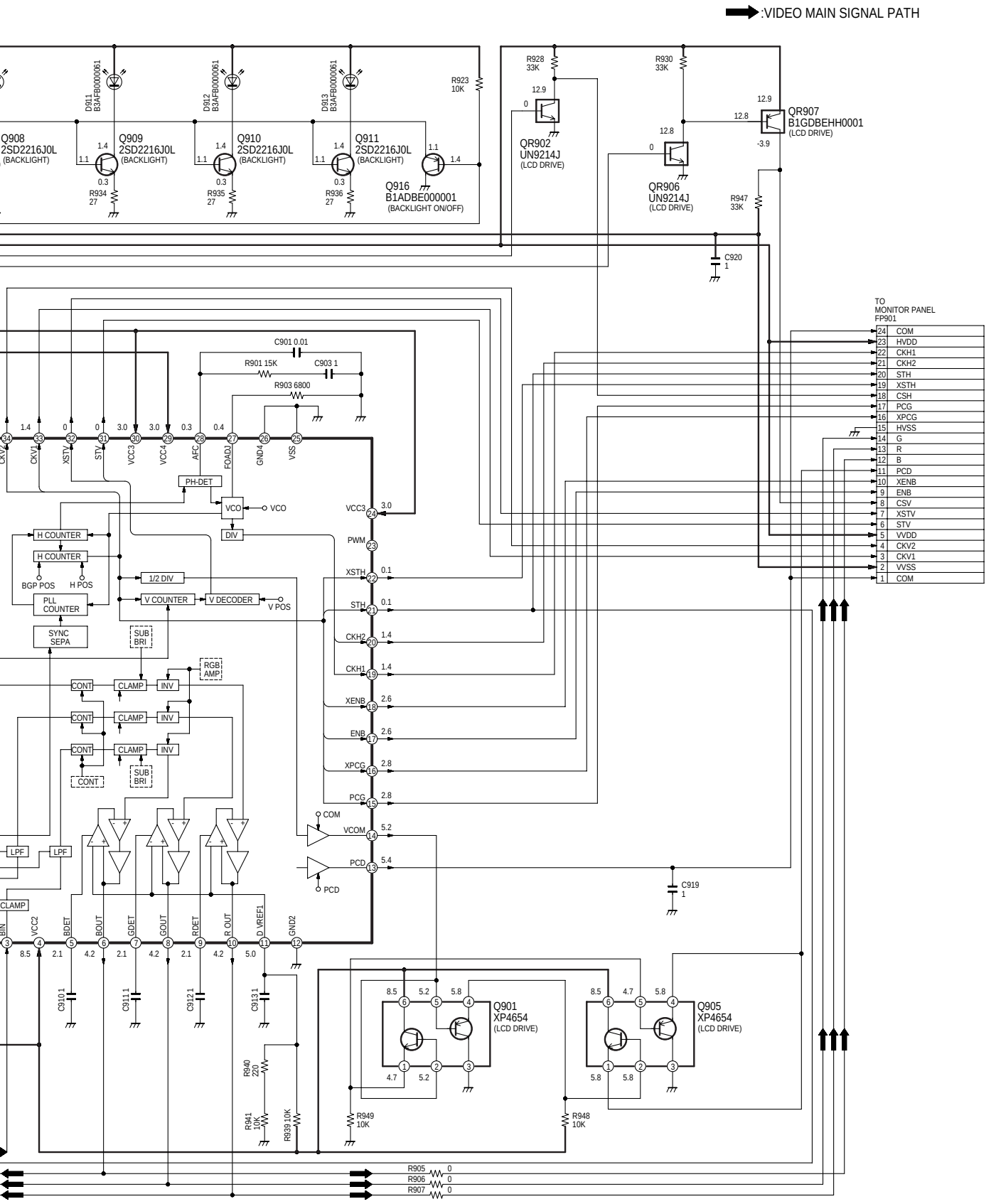


NV-GS200SERIES,GS120SERIES
JACK SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

10.15. MONITOR SCHEMATIC DIAGRAM (NV-GS120SERIES ONLY)

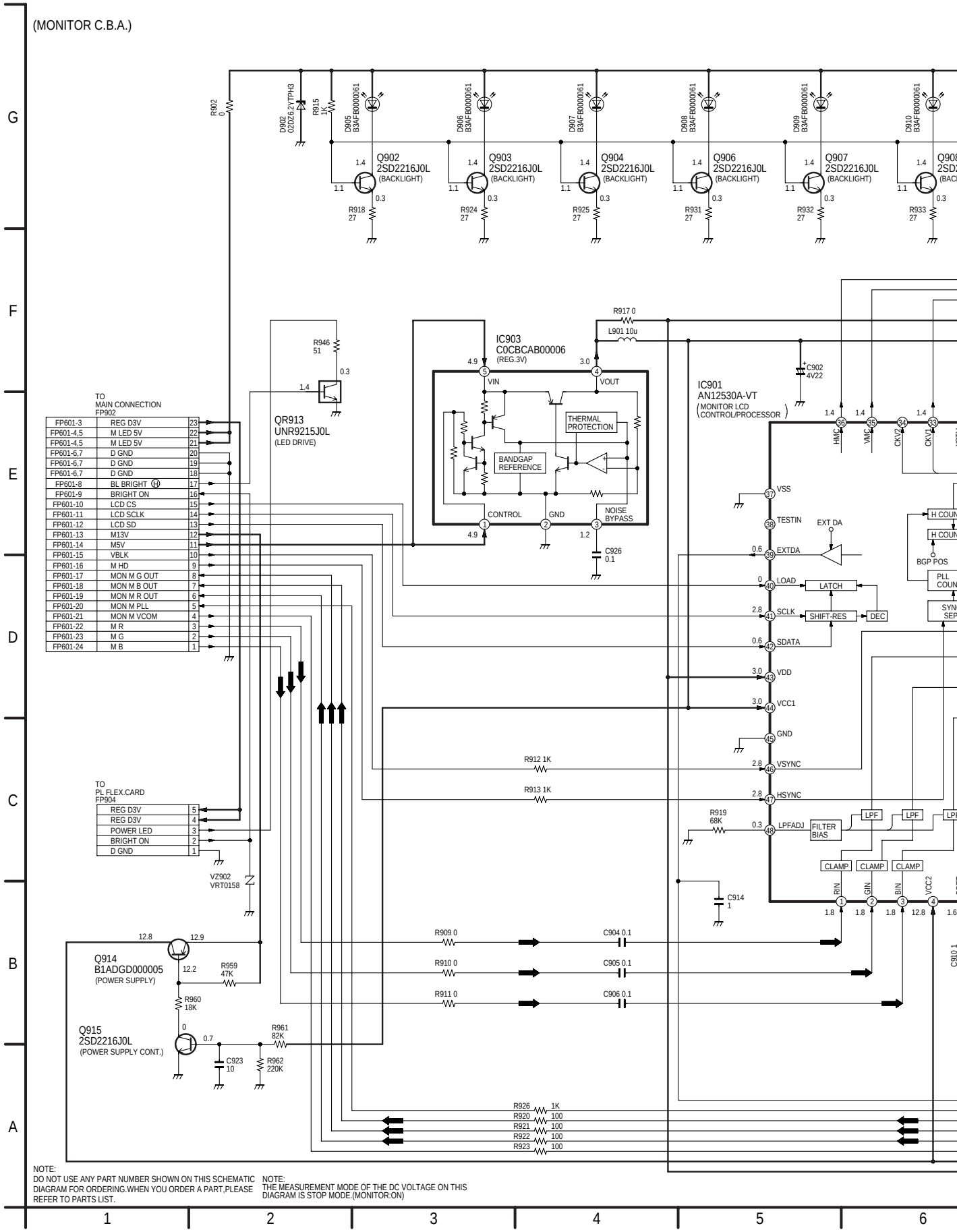




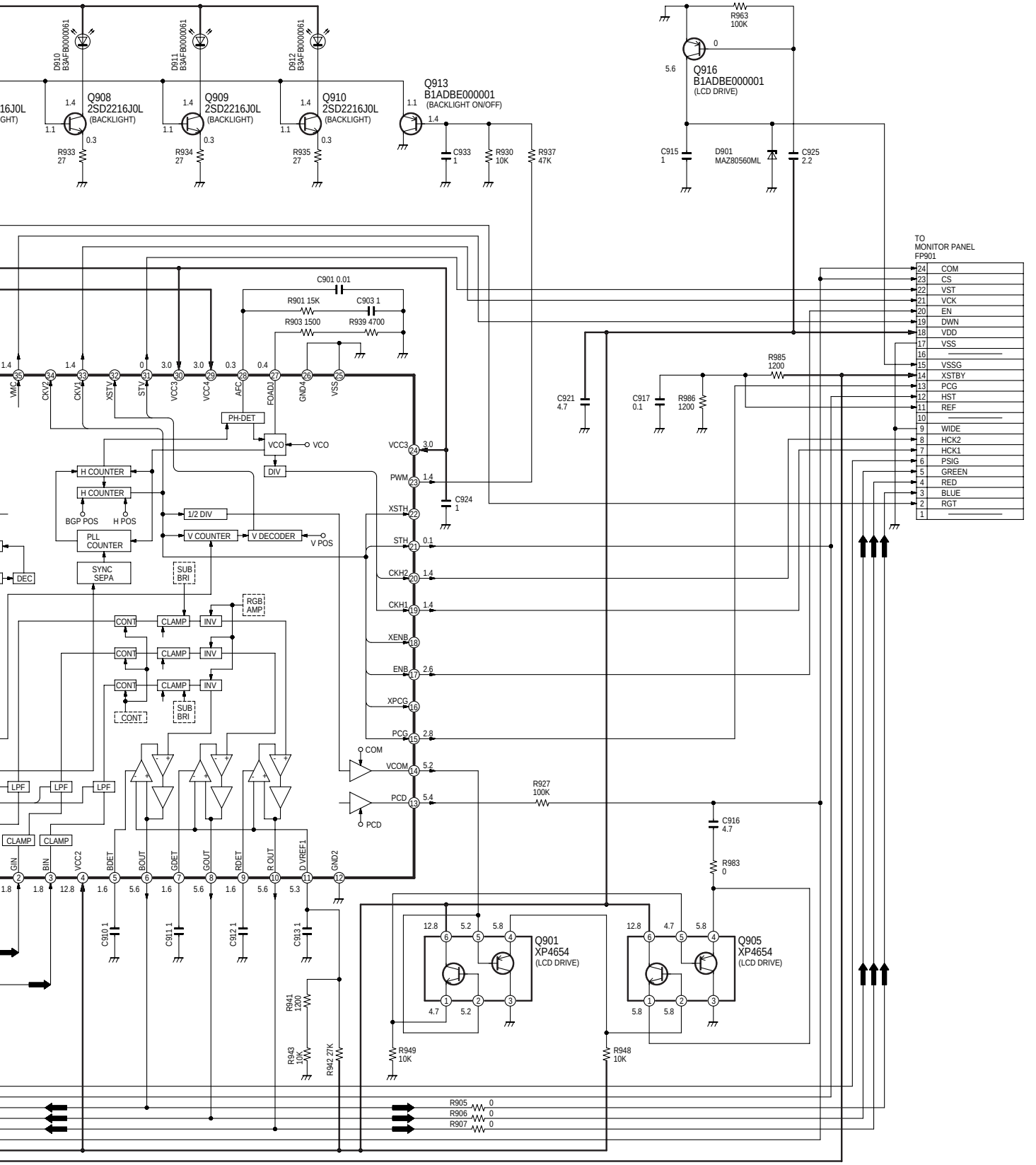
NV-GS200SERIES,GS120SERIES
MONITOR SCHEMATIC DIAGRAM
(NV-GS120SERIES ONLY)

6 | 7 | 8 | 9 | 10 | 11

10.16. MONITOR SCHEMATIC DIAGRAM (NV-GS200SERIES ONLY)



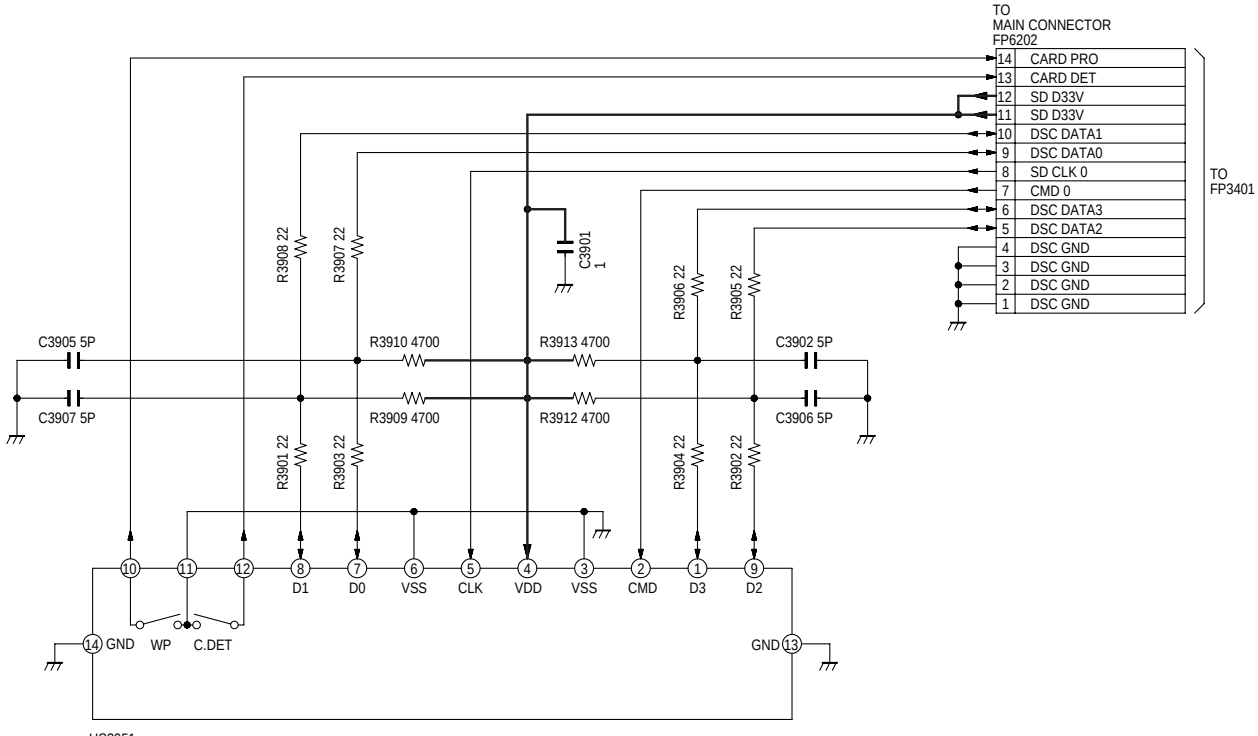
:VIDEO MAIN SIGNAL PATH



NV-GS200SERIES,GS120SERIES
MONITOR SCHEMATIC DIAGRAM(NV-GS200SERIES ONLY)

6 | 7 | 8 | 9 | 10 | 11

(SD HOLDER C.B.A.)



HS3951
K1NA09E00039

SD CARD CONNECTOR

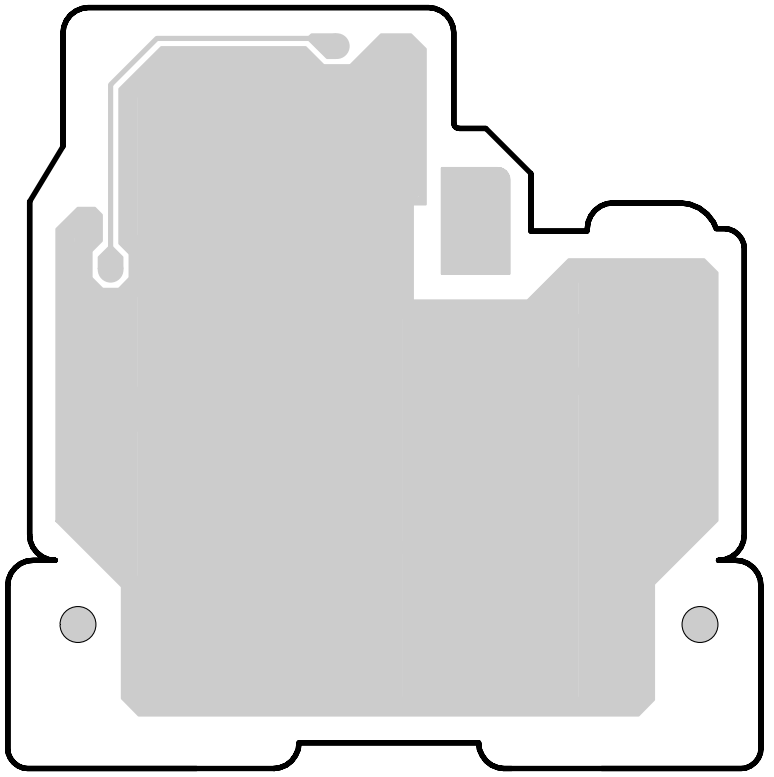
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-GS200SERIES,GS120SERIES
SD HOLDER SCHEMATIC DIAGRAM

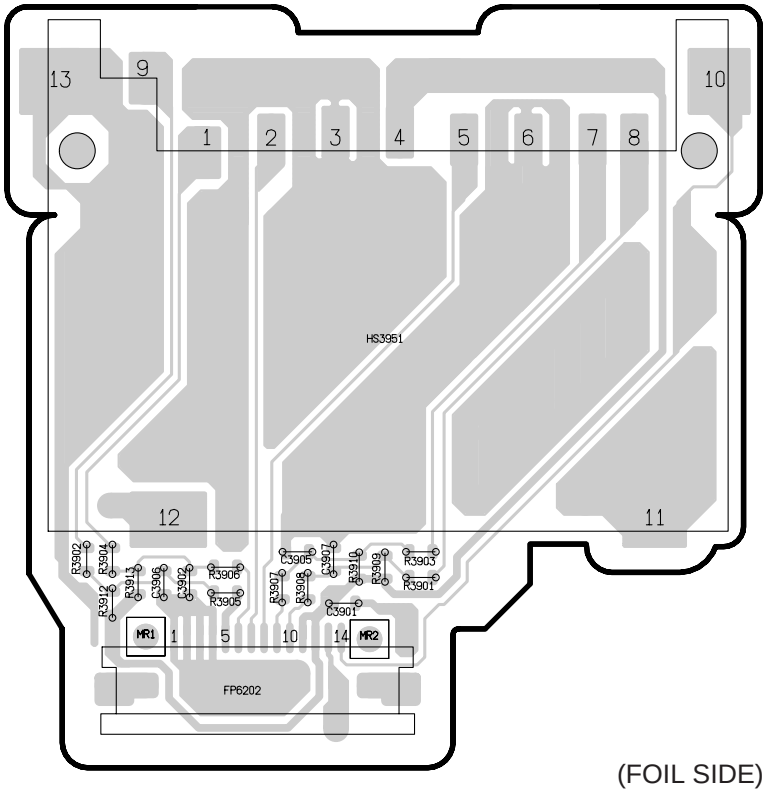
C B A

1 2 3 4

(VEP001D0A)



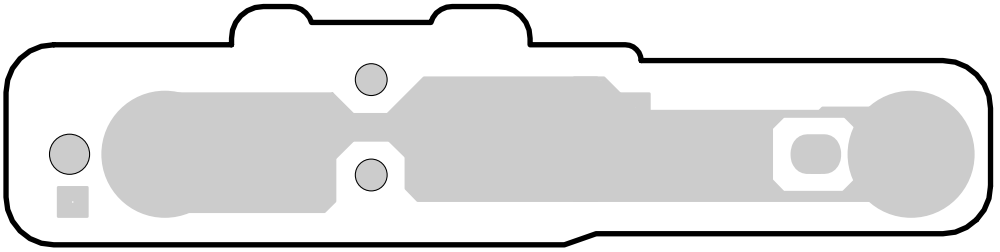
(COMPONENT SIDE)



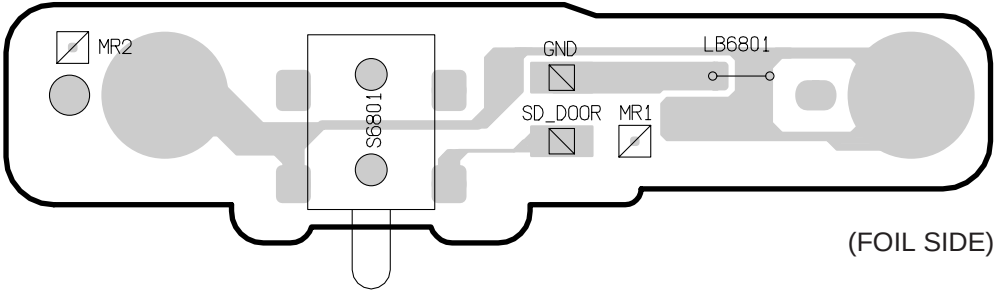
(FOIL SIDE)

NV-GS200SERIES,GS120SERIES
SD HOLDER C.B.A.

(VEP001C2B)



(COMPONENT SIDE)



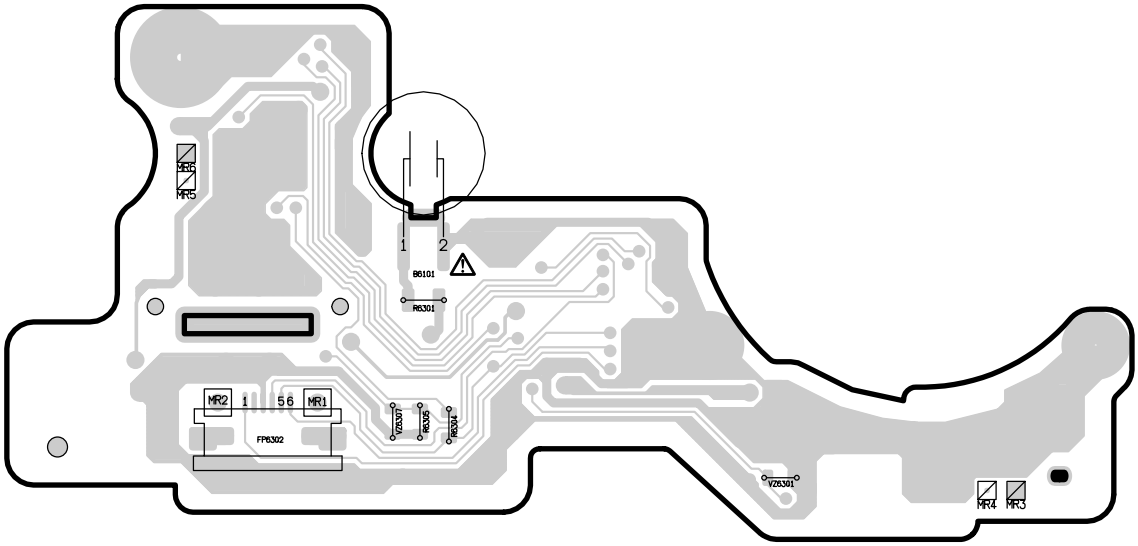
(FOIL SIDE)

NV-GS200SERIES,GS120SERIES
SD OPEN C.B.A.

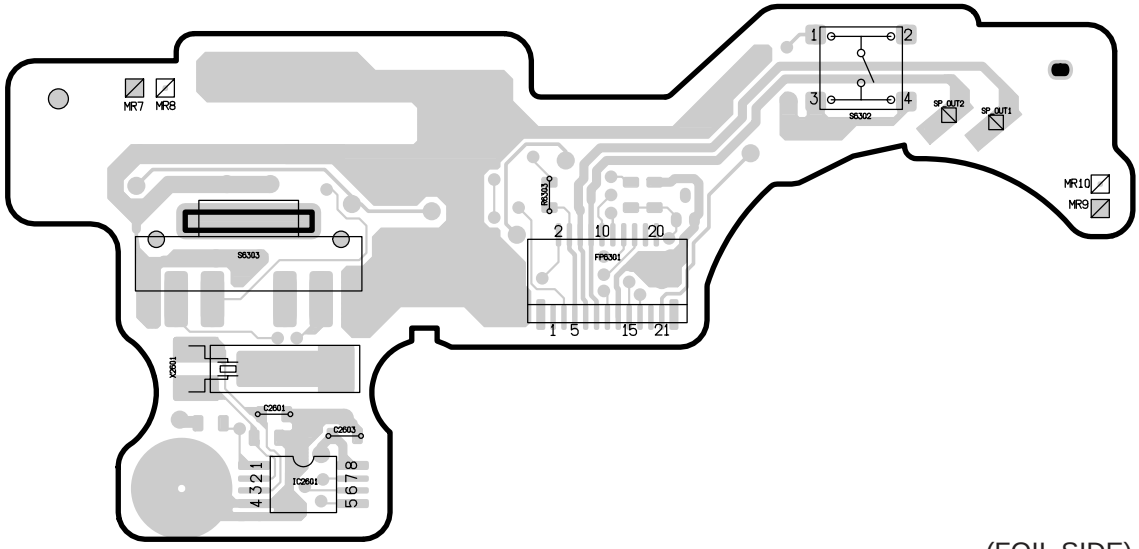
C
B
A

1 2 3 4 5

(VEP001D4B)



(COMPONENT SIDE)



(FOIL SIDE)

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NV-GS200SERIES,GS120SERIES
SIDE (L) C.B.A.

E D C B A

1 2 3 4 5

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

(SIDE L C.B.A.)

TO
MAIN CONNECTION
FP6301

FP6501-20,21	———	1
FP6501-19	———	2
FP6501-18	VTR KEY 5	3
FP6501-17	———	4
FP6501-16	RESET	5
FP6501-15	SP OUT1	6
FP6501-14	SP OUT1	7
FP6501-13	SP OUT2	8
FP6501-12	SP OUT2	9
FP6501-11	———	10
FP6501-10	ZOOM AD	11
FP6501-9	AVREF	12
FP6501-8	GND	13
FP6501-7	RTC INT	14
FP6501-6	RTC DIO	15
FP6501-5	RTC SCK	16
FP6501-4	RTC CS	17
FP6501-3	———	18
FP6501-3	———	19
FP6501-2	———	20
FP6501-1	RTC 3V	21

SP OUT1
SP OUT2
TO SPEAKER

S6303
VSS0533
AUTO M MF

R6305
47K

R6304
47K

VZ6307
VRT0158

TO
CASSETTE COVER UNIT
FP6302

1	———
2	———
3	GND
4	ZOOM AD
5	AVREF
6	———

RESET
S6302
K0H1BA000436

R6303
470

VZ6301
VRT0158

IC2601
C1ZBZ0002438
(REAL TIME CLOCK)

3.3 VDD
1.3 SIO
2.8 SCK
1.9 CS
2.7 INT
0.4 XOUT
0.3 XIN
VSS

X2601
H0A327200093 (32.768KHz)

C2601
8P

C2603
0.1

R6301
1K
⚠
LITHIUM BATTERY

B6101
ML-621S/F9D

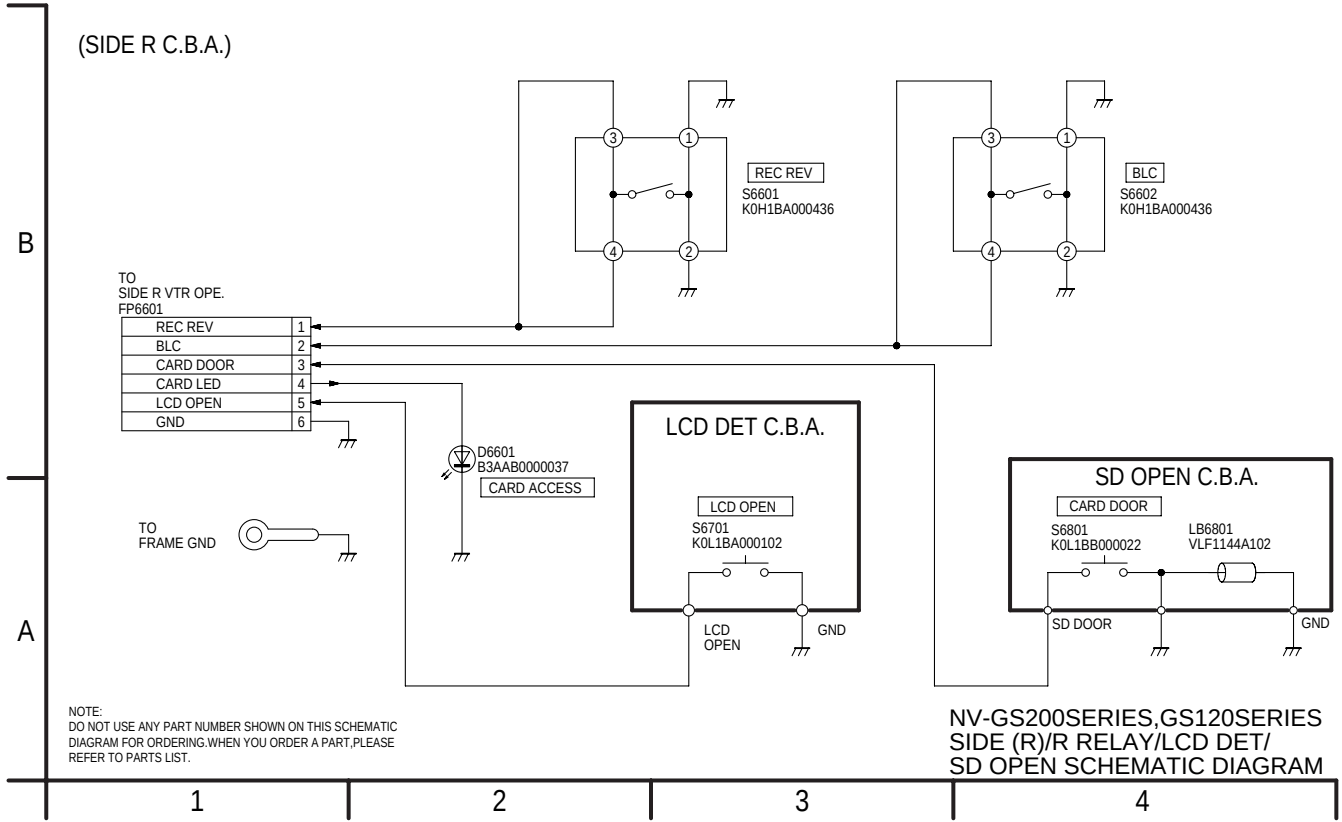
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASEREFER TO PARTS LIST.

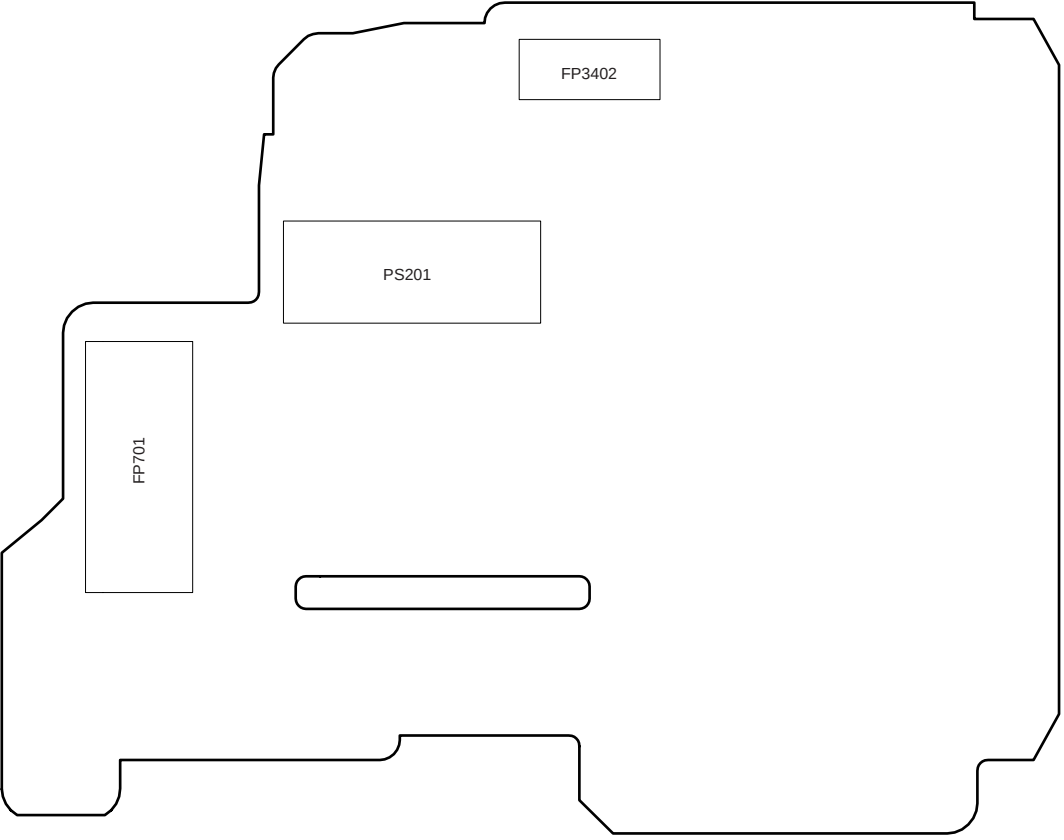
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-GS200SERIES,GS120SERIES SIDE (L) SCHEMATIC DIAGRAM

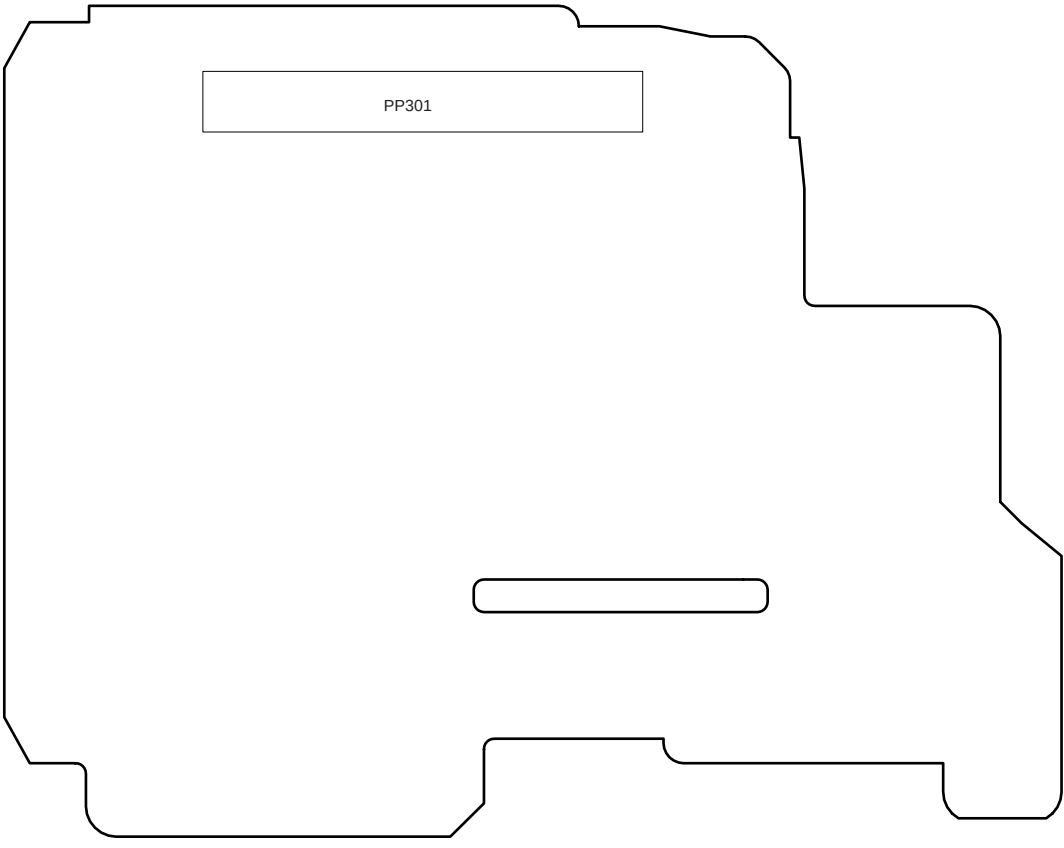
C B A

1 2 3 4 5

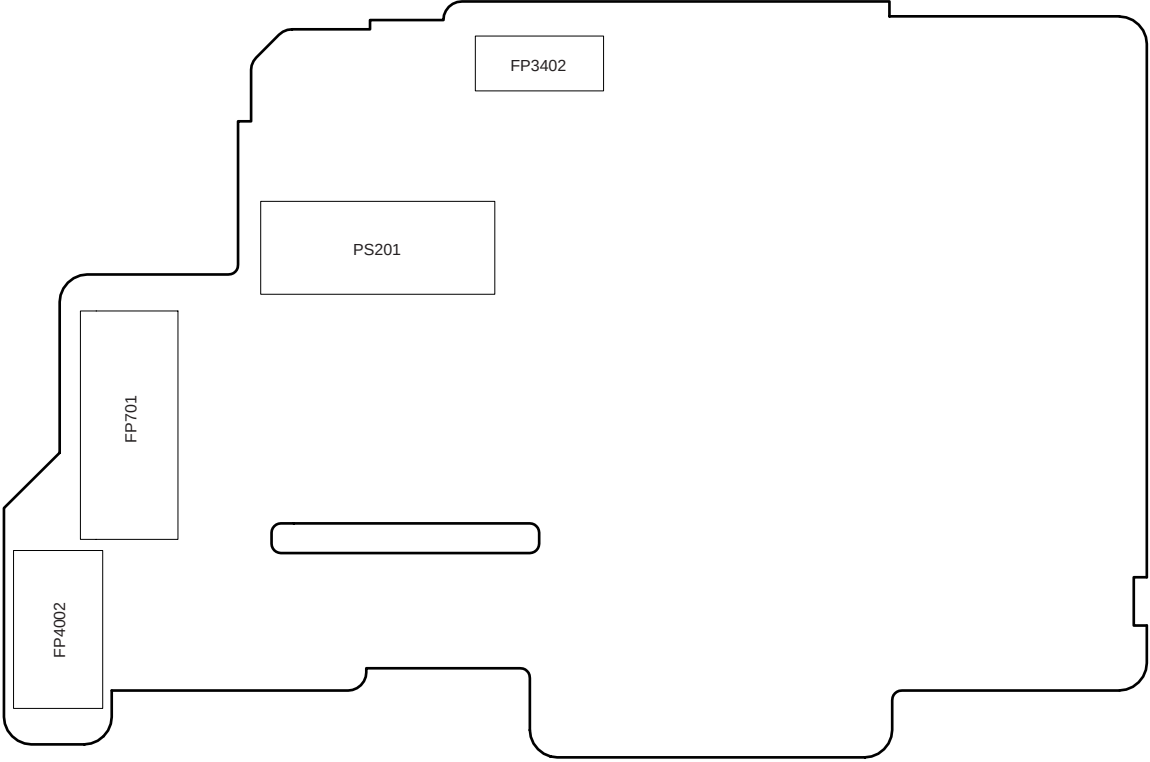

(SIDE R C.B.A.)
B
A
REC REV
S6601
K0H1BA000436
BLC
S6602
K0H1BA000436
TO
SIDE R VTR OPE.
FP6601
REC REV 1
BLC 2
CARD DOOR 3
CARD LED 4
LCD OPEN 5
GND 6
D6601
B3AAB0000037
CARD ACCESS
TO
FRAME GND
LCD DET C.B.A.
LCD OPEN
S6701
K0L1BA000102
LCD OPEN
GND
SD OPEN C.B.A.
CARD DOOR
S6801
K0L1BB000022
LB6801
VLF1144A102
SD DOOR
GND
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NV-GS200SERIES,GS120SERIES
SIDE (R)/R RELAY/LCD DET/
SD OPEN SCHEMATIC DIAGRAM
1
2
3
4



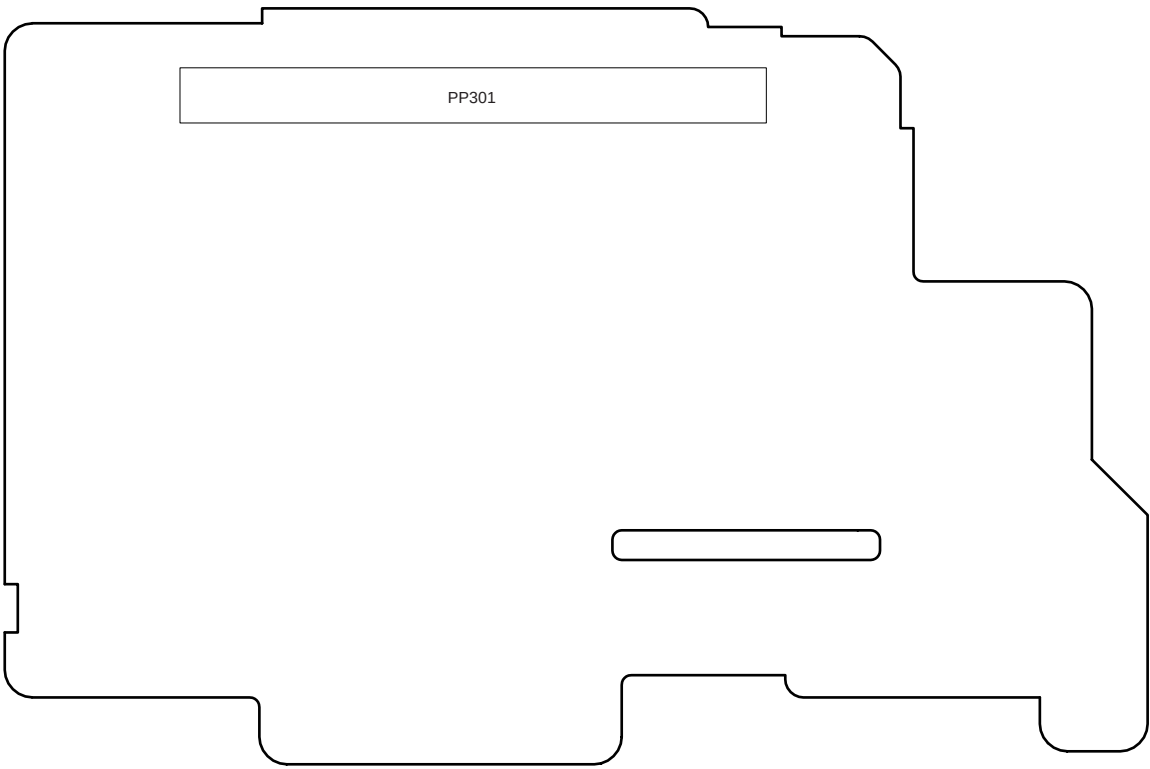
(COMPONENT SIDE)



(FOIL SIDE)

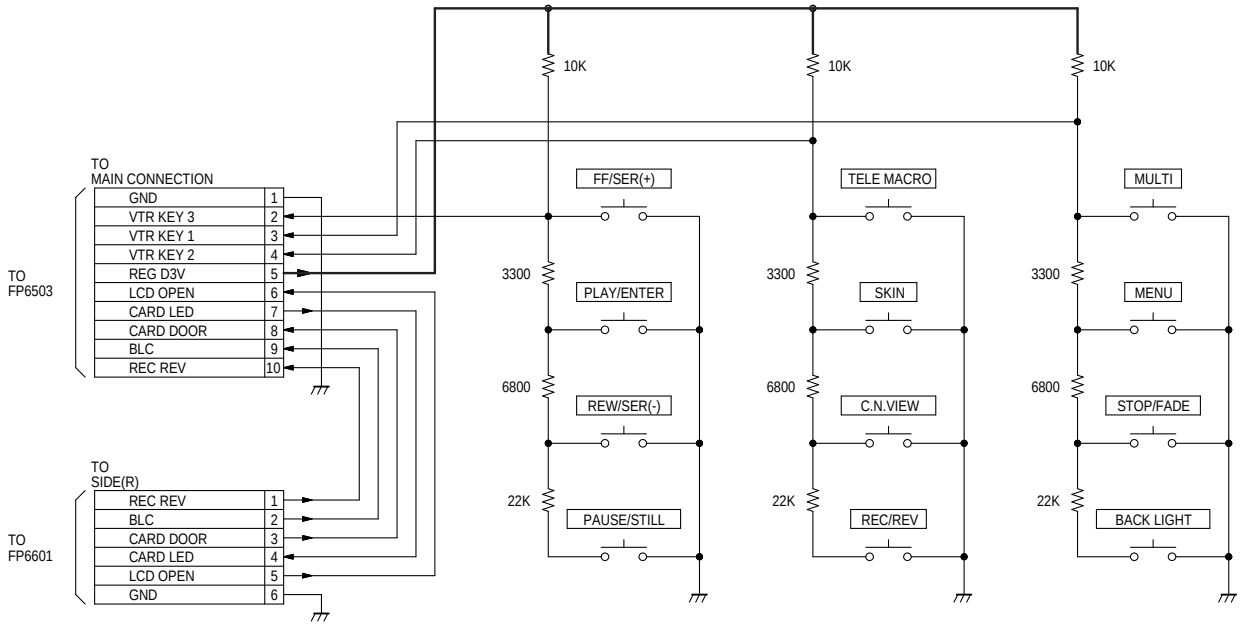


(COMPONENT SIDE)



(FOIL SIDE)

(SIDE R VTR OPEATION FLEX.UNIT)



NV-GS200SERIES,GS120SERIES
SIDE (R) VTR OPERATION UNIT
SCHEMATIC DIAGRAM

C B A

1 2 3 4

(MONITOR C.B.A.)

:VIDEO MAIN SIGNAL PATH

R902 0
D902 020Z6.2YTPH3
R915 1K
D905 B34FB0000061
D906 B34FB0000061
D907 B34FB0000061
D908 B34FB0000061
D909 B34FB0000061
D910 B34FB0000061
D911 B34FB0000061
D912 B34FB0000061
D913 B34FB0000061
R923 10K

Q902 2SD2216J0L (BACKLIGHT)
Q903 2SD2216J0L (BACKLIGHT)
Q904 2SD2216J0L (BACKLIGHT)
Q906 2SD2216J0L (BACKLIGHT)
Q907 2SD2216J0L (BACKLIGHT)
Q908 2SD2216J0L (BACKLIGHT)
Q909 2SD2216J0L (BACKLIGHT)
Q910 2SD2216J0L (BACKLIGHT)
Q911 2SD2216J0L (BACKLIGHT)

R918 27
R924 27
R925 27
R931 27
R932 27
R933 27
R934 27
R935 27
R936 27

Q916 B1ADBE000001 (BACKLIGHT ON/OFF)

R928 33K
R930 33K
QR902 UN9214J (LCD DRIVE)
QR906 UN9214J (LCD DRIVE)
QR907 B1GDBEHH0001 (LCD DRIVE)
R947 33K

R929 3300
C933 1
R927 560
C920 1

R946 51
QR913 UNR9215J0L (LED DRIVE)

R917 0
R908 0

IC903 C0CBCAB00006 (REG.3V)
VIN
VOUT
THERMAL PROTECTION
BANDGAP REFERENCE
CONTROL
GND
NOISE BYPASS
C926 0.1

C902 6V10

C901 0.01
R901 15K
C903 1
R903 6800

HMC VMC CKV2 CKV1 XSTV STV VCC3 VCC4 AFC FOADJ GNDA VSS

PH-DET
VCO
DIV
H COUNTER
H COUNTER
BGP POS
H POS
PLL COUNTER
1/2 DIV
V COUNTER
V DECODER
V POS
SYNC SEPA
SUB BRI
RGB AMP
CONT
CLAMP
INV
SUB BRI
LPF
FILTER BIAS
CLAMP

VSS
TESTIN
EXTDA
EXT DA
LOAD
LATCH
SCLK
SHIFT-RES
DEC
SDATA
VDD
VCC1
GND
VSYNC
HSYNC
LPFADJ
R919 68K

RIN GIN BIN VCC2 BDET BOUT GDET GOUT RDET R OUT D VREF1 GND2

IC901 AN12530A-VT (MONITOR LCD CONTROL/PROCESSOR)

C910 1
C911 1
C912 1
C913 1

VCC3
PWM
XSTH
STH
CKH2
CKH1
XENB
ENB
XPCG
PCG
COM
VCOM
PCD

R940 220
R941 10K
R939 10K
R949 10K
R948 10K

Q901 XP4654 (LCD DRIVE)
Q905 XP4654 (LCD DRIVE)

C919 1
C921 1

R912 1K
R913 1K

Q912 B1ADBE000001 (POWER SUPPLY)
R952 47K
R955 47K
R956 0
R953 3300
C922 1
R954 15K
R957 18K

Q913 XP1501 (POWER SUPPLY CONT.)

Q914 B1ADGD000005 (POWER SUPPLY)
R959 47K
C925 1
R960 100K
R961 82K
R962 220K
C923 10

Q915 2SD2216J0L (POWER SUPPLY CONT.)

R909 0
R910 0
R911 0
C904 0.1
C905 0.1
C906 0.1

R926 1K
R920 100
R921 100
R922 100

R905 0
R906 0
R907 0

TO MAIN CONNECTION FP902

FP601-3	REG D3V	23
FP601-4,5	M LED 5V	22
FP601-4,5	M LED 5V	21
FP601-6,7	D GND	20
FP601-6,7	D GND	19
FP601-6,7	D GND	18
FP601-8	BL BRIGHT Ⓗ	17
FP601-9	BRIGHT ON	16
FP601-10	LCD CS	15
FP601-11	LCD SCLK	14
FP601-12	LCD SD	13
FP601-13	M 13V	12
FP601-14	M 5V	11
FP601-15	VBLK	10
FP601-16	LCD MD	9
FP601-17	MON M G OUT	8
FP601-18	MON M B OUT	7
FP601-19	MON M R OUT	6
FP601-20	MON M PLL	5
FP601-21	M -4V	4
FP601-22	M R	3
FP601-23	M G	2
FP601-24	M B	1

TO PL FLEX.CARD FP904

REG D3V	5
REG D3V	4
POWER LED	3
BRIGHT ON	2
D GND	1

VZ902 VRT0158

TO MONITOR PANEL FP901

24	COM
23	HVDD
22	CKH1
21	CKH2
20	STH
19	XSTH
18	CSH
17	PCG
16	XPCG
15	HVSS
14	G
13	R
12	B
11	PCD
10	XENB
9	ENB
8	CSV
7	XSTV
6	STV
5	VVDD
4	CKV2
3	CKV1
2	VVSS
1	COM

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:ON)

NV-GS200SERIES,GS120SERIES
MONITOR SCHEMATIC DIAGRAM
(NV-GS120SERIES ONLY)

G F E D C B A

1 2 3 4 5 6 7 8 9 10 11

(MONITOR C.B.A.)

:VIDEO MAIN SIGNAL PATH

TO MAIN CONNECTION FP902

FP601-3	REG D3V	23
FP601-4,5	M LED 5V	22
FP601-4,5	M LED 5V	21
FP601-6,7	D GND	20
FP601-6,7	D GND	19
FP601-6,7	D GND	18
FP601-8	BL BRIGHT Ⓗ	17
FP601-9	BRIGHT ON	16
FP601-10	LCD CS	15
FP601-11	LCD SCLK	14
FP601-12	LCD SD	13
FP601-13	M13V	12
FP601-14	M5V	11
FP601-15	VBLK	10
FP601-16	M HD	9
FP601-17	MON M G OUT	8
FP601-18	MON M B OUT	7
FP601-19	MON M R OUT	6
FP601-20	MON M PLL	5
FP601-21	MON M VCOM	4
FP601-22	M R	3
FP601-23	M G	2
FP601-24	M B	1

TO PL FLEX.CARD FP904

REG D3V	5
REG D3V	4
POWER LED	3
BRIGHT ON	2
D GND	1

TO MONITOR PANEL FP901

24	COM
23	CS
22	VST
21	VCK
20	EN
19	DWN
18	VDD
17	VSS
16	
15	VSSG
14	XSTBY
13	PCG
12	HST
11	REF
10	
9	WIDE
8	HCK2
7	HCK1
6	PSIG
5	GREEN
4	RED
3	BLUE
2	RGT
1	

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
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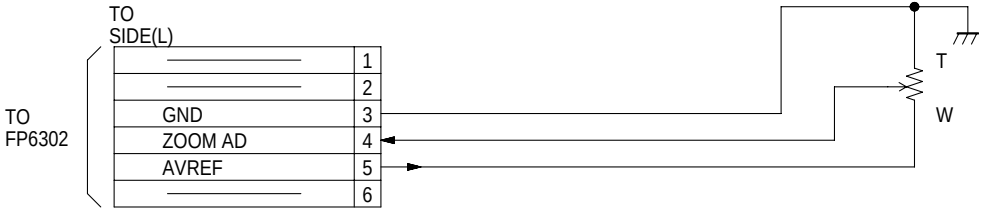
NV-GS200SERIES,GS120SERIES
MONITOR SCHEMATIC DIAGRAM(NV-GS200SERIES ONLY)

(CASSETTE COVER UNIT)



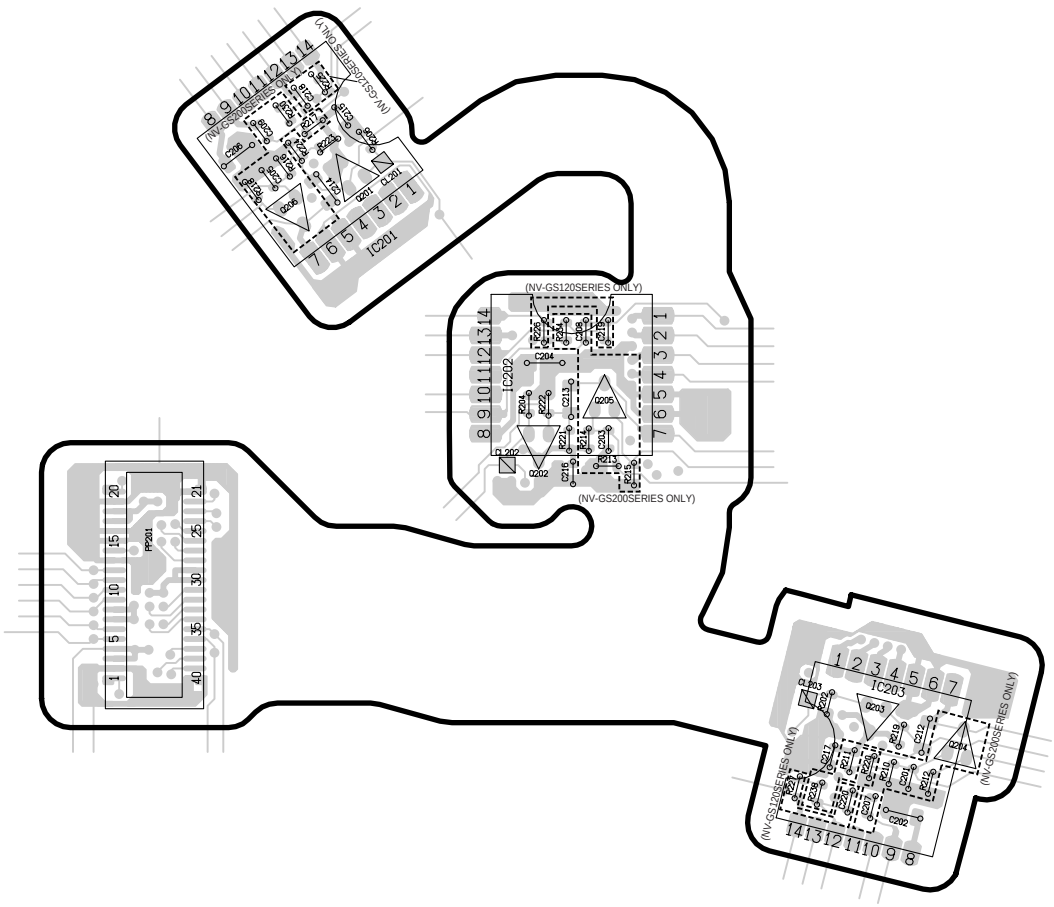
NV-GS200SERIES,GS120SERIES
CASSETTE COVER UNIT
SCHEMATIC DIAGRAM

B

A

1 2 3

(VEP22349A:NV-GS200SERIES)
(VEP22349B:NV-GS120SERIES)



NV-GS200SERIES,GS120SERIES
CCD FLEX.CARD C.B.A.

D
C
B
A

1 2 3 4

(CCD FLEX.CARD C.B.A.)

:VIDEO MAIN SIGNAL PATH

IC203
C4AZJ0000003:VV-GS200SERIES
MN39236:NV-GS120SERIES
(CCD,B)

IC202
C4AZJ0000003:VV-GS200SERIES
MN39236:NV-GS120SERIES
(CCD,R)

IC201
C4AZJ0000003:VV-GS200SERIES
MN39236:NV-GS120SERIES
(CCD,G)

Q203 2SC4627JCL (AMP)
Q202 2SC4627JCL (AMP)
Q201 2SC4627JCL (AMP)
Q204 2SC4627JCL (FILTER)
Q205 2SC4627JCL (FILTER)
Q206 2SC4627JCL (FILTER)

(NV-GS200SERIES ONLY)
(NV-GS120SERIES ONLY)
(NV-GS120 SERIES ONLY)
(NV-GS200 SERIES ONLY)

TO SUB CONNECTION PP201

40	A GND
39	H2 B
38	H1 B
37	SUB B
36	V2 B
35	V4 B
34	R
33	H2 G
32	H1 G
31	SUB G
30	-8V
29	-8V
28	V1 R
27	V2 R
26	V3 R
25	V4 R
24	H2 R
23	H1 R
22	SUB R
21	A GND
20	SIG R
19	A GND
18	5V RG
17	5V RG
16	A GND
15	A GND
14	SIG G
13	A GND
12	V1 G
11	V2 G
10	V3 G
9	V4 G
8	15V
7	15V
6	V3 B
5	V1 B
4	5V B
3	5V B
2	A GND
1	SIG B

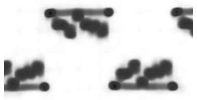
TO PS201

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

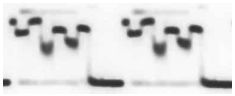
NV-GS200SERIES,GS120SERIES
CCD FLEX. CARD
SCHEMATIC DIAGRAM

FP801-3 REC/PLAY
3.0Vp-p (20usec.div.)

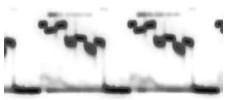


FP801-4 REC/PLAY
3.0Vp-p (20usec.div.)

FP801-5 REC/PLAY
3.0Vp-p (20usec.div.)

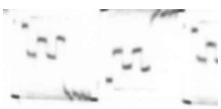


IC901-1 REC/PLAY
0.4Vp-p (20usec.div.)



IC901-2 REC/PLAY
0.4Vp-p (20usec.div.)

IC901-3 REC/PLAY
0.4Vp-p (20usec.div.)

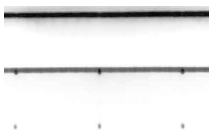


IC901-6 REC/PLAY
6.0Vp-p (20usec.div.)

IC901-8 REC/PLAY
6.0Vp-p (20usec.div.)

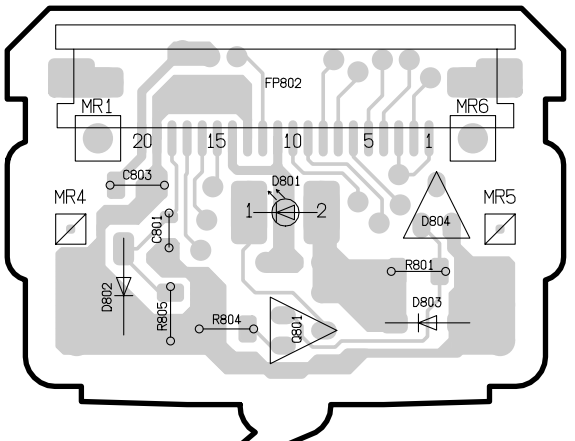
IC901-10 REC/PLAY
6.0Vp-p (20usec.div.)

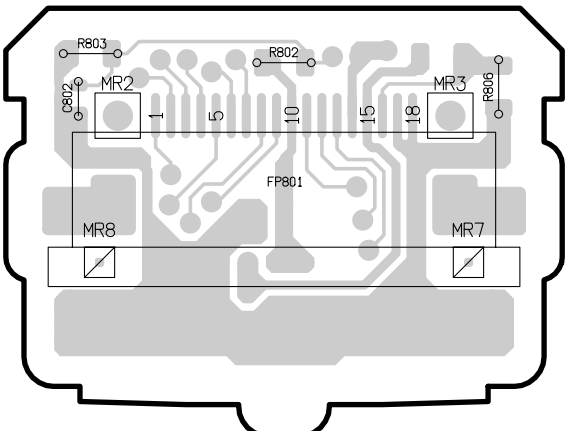
IC901-46 REC/PLAY
1.8Vp-p (5msec.div.)



IC901-47 REC/PLAY
1.8Vp-p (5msec.div.)

(VEP29159A)





(FOIL SIDE) (COMPONENT SIDE)

NV-GS200SERIES,GS120SERIES
EVF C.B.A.

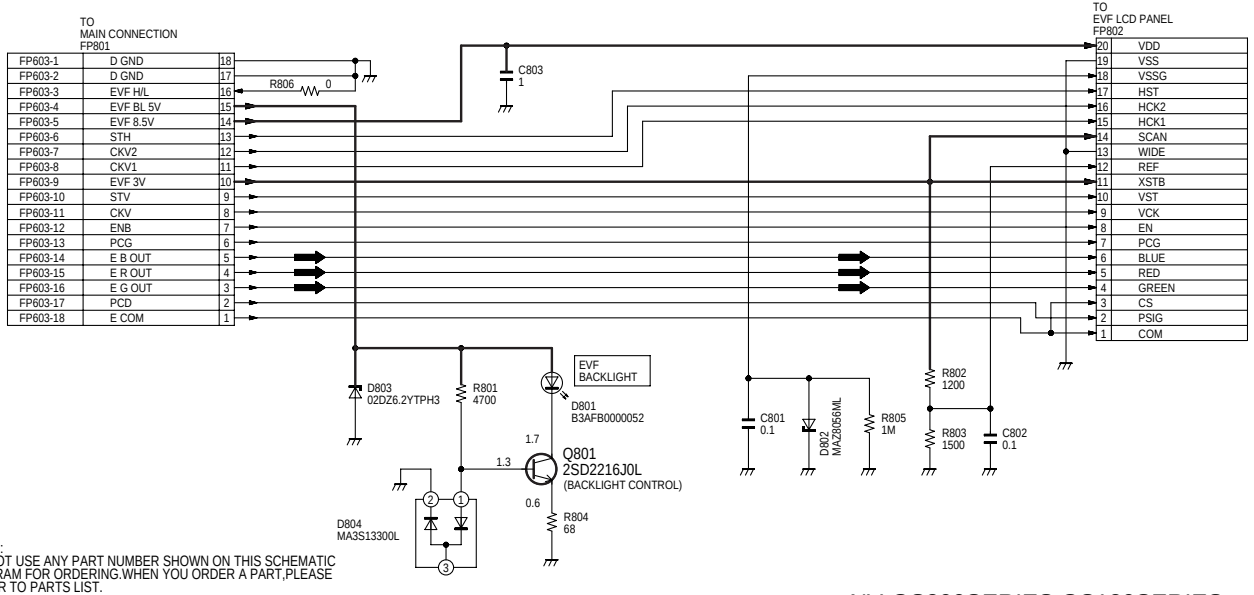
B

A

1 2 3 4 5

(EVF C.B.A.)

➡:VIDEO MAIN SIGNAL PATH



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

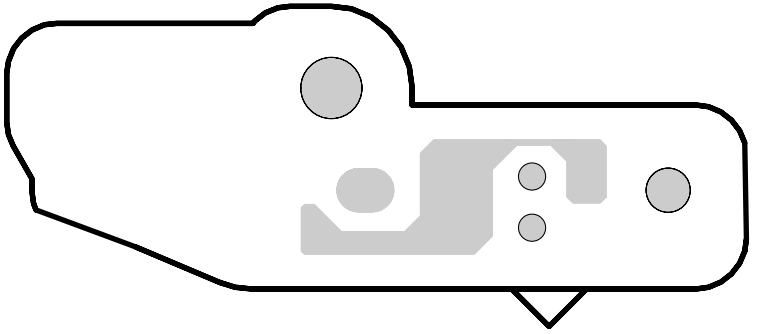
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (EVF: ON)

NV-GS200SERIES,GS120SERIES
EVF SCHEMATIC DIAGRAM

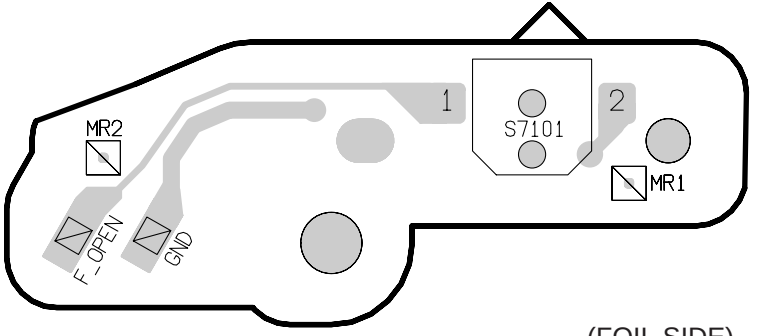
C B A

1 2 3 4 5

(VEP001E6A)



(COMPONENT SIDE)



(FOIL SIDE)

NV-GS200SERIES,GS120SERIES
FLASH SW C.B.A.
(NV-GS200SERIES ONLY)

C
B
A

1 2 3 4 5

(FRONT C.B.A.)

(NV-GS200SERIES ONLY)

:AUDIO MAIN SIGNAL PATH

TO
FLASH FLEX.
FP7002

KCENON(K)	27
KCENON(K)	26
KCENON(K)	25
KCENON(K)	24
KCENON(K)	23
KCENON(K)	22
	21
	20
	19
	18
	17
	16
GND G	15
GND G	14
GND G	13
	12
	11
	10
	9
	8
	7
KCENON(A)	6
KCENON(A)	5
KCENON(A)	4
KCENON(A)	3
KCENON(A)	2
KCENON(A)	1

C7001 0.022
T7001 G5DYA0000033
C7010 1
L7001 56u
R7001 33
Q7001 B1BDDG000007 (SWITCHING)
R7018 680
R7019 22
D7003 B0ECKT000001
TL7007
D7004 MA5Z300-L
C7004 F2AZZ6500001
C7002 1000P
R7002 39K
R7005 330K
Q7002 2SB1462JHL (POWER CONTROL)
R7003 2200
QR7001 UN921F (INV.)
C7003 0.01
R7006 560K
Q7003 B1ABBE000002 (POWER CONTROL)
R7022 1K
R7004 8200

244 (257) 246 (258) 247 (262) 248 (265)
IC7003 B1JBLP000004 (FLASH DRIVE)
TL7002
R7008 33
IC7001 C0JBAA000115
C7006 0.1
R7010 47K
CL7002

(NV-GS200SERIES ONLY)
FLASH SW .C.B.A.
FLASH OPEN
S7101 K0L1BA000074
F OPEN
GND

(NV-GS120SERIES ONLY)
TO
MAIN CONNECTION
FP4801

1	IR OUT	FP6505-21
2	TALLY	FP6505-20
3	REMOCON	FP6505-19
4	REG A5V	FP6505-18,17
5	REG A5V	FP6505-18,17
6	ST NOREG	FP6505-13,14,15
7	ST NOREG	FP6505-13,14,15
8	NOREG GND	FP6505-9,10
9	NOREG GND	FP6505-9,10
10	MIC 5V	FP6505-7,8
11	MIC 5V	FP6505-7,8
12	MIC (L)	FP6505-6
13	MIC GND	FP6505-4,5
14	MIC GND	FP6505-4,5
15	MIC (R)	FP6505-3
16	D GND	FP4005-1,2
17	D GND	FP4002-1,2
18		FP4002-11,12,16

TO FP6505

(NV-GS200SERIES ONLY)
TO
MAIN/SUB CONNECTION
FP4801

1	IR OUT	FP6505-21
2	TALLY	FP6505-20
3	REMOCON	FP6505-19
4	REG A5V	FP6505-18,17
5	REG A5V	FP6505-18,17
6	ST NOREG	FP6505-13,14,15
7	ST NOREG	FP6505-13,14,15
8	NOREG GND	FP6505-9,10
9	NOREG GND	FP6505-9,10
10	MIC 5V	FP6505-7,8
11	MIC 5V	FP6505-7,8
12	MIC (L)	FP6505-6
13	MIC GND	FP6505-4,5
14	MIC GND	FP6505-4,5
15	MIC (R)	FP6505-3
16	D GND	FP4005-1,2
17	D GND	FP4002-1,2
18	F OPEN	FP4002-3
19	TRIG END	FP4002-4
20	CHA END	FP4002-5
21	CHARGE	FP4002-6
22	MF L1	FP4002-8
23	MF L2	FP4002-9
24	MF LED	FP4002-10

TO MAIN CONNECTION FP6505
TO SUB CONNECTION FP4002

TO
MF SENSOR
FP7001

1	GND
2	MF L1
3	MF VCC
4	MF L2
5	MF VCC
6	MF LED

MIC UNIT
ECM(R)
M4801
ECM(L)
M4802
CL4802
VZ4802 D4ED1270A003
CL4803
CL4801
VZ4801 D4ED1270A003
R4801 3900
R4802 3900
C4801 0.01
C4803 3300P
C4812 1
R4813 22K
Q4803 2SD1819A0L (R.FILTER)
R4815 4700
C4808 6V22
R4803 68K
C4805 0.01
R4805 390K
C4807 4.7
R4814 33K
IC4801 C0ABBB000105 (MIC AMP)
GND
VCC
TO FRAME GND1
RL4001
C4899 1
TO FRAME GND2
RL4002
C4802 0.01
C4806 0.01
R4806 390K
C4811 1
R4804 68K
C4804 3300P
CL7005
D6801 B3AAB0000037
TALLY
R6803 330
R6401 0
IR6401 B3RAB0000030 (IR RECEIVER)
VCC GND OUT
R6402 47
C6401 10
C491 0.1
R491 2.2M
R495 10M
C493 0.22
C492 0.22
D6802 B3GA00000037
Q491 2SD1030 (AMP)
Q492 B1ABBE000002 (AMP)
R492 330K
R494 1800
R493 4700
D491 MA132WA

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

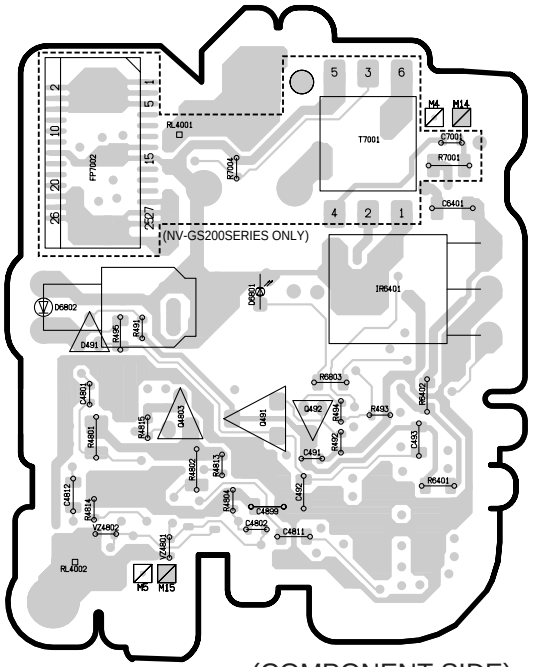
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.
(SP MODE)

NV-GS200SERIES,GS120SERIES
FRONT/FLASH SW FLEX. CARD
SCHEMATIC DIAGRAM

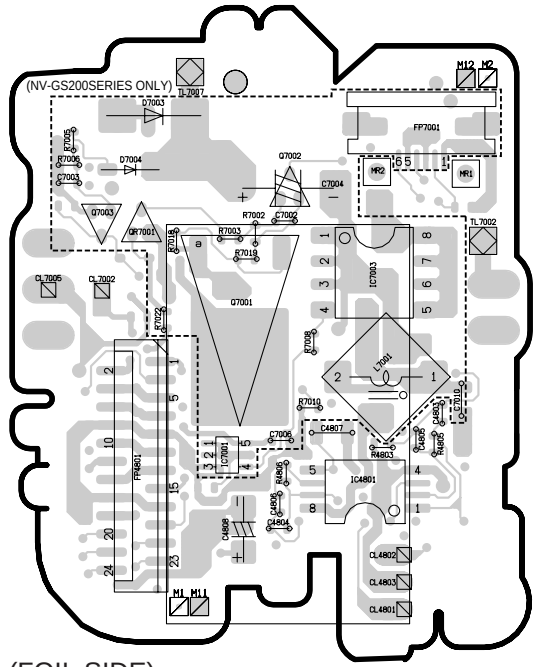
F E D C B A

1 2 3 4 5 6 7 8 9

(VEP04854A:NV-GS200SERIES)
(VEP04854B:NV-GS120SERIES)



(COMPONENT SIDE)



(FOIL SIDE)

NV-GS200SERIES,GS120SERIES
FRONT C.B.A.

NV-GS200SERIES,GS120SERIES INTERCONNECTION SCHEMATIC DIAGRAM

FLASH

FLASH FLEX.

FLASH OPEN

FLASH SW C.B.A.

ECM(R)

ECM(L)

MIC UNIT

MF SENSOR C.B.A.

(NV-GS200SERIES ONLY)

REMOTE CONTROL RECEIVER

FRONT C.B.A.

LENS UNIT

CCD FLEX.CARD C.B.A.

SUB C.B.A.

- CAMERA
- MPEG
- SUB POWER
- LENS DRIVE
- SUB CONNCTOR

(NV-GS200SERIES ONLY)

EVR

EVR2

CASSETTE COVER UNIT(TOP)

SPEAKER

SIDE(L) C.B.A.

REAR OPERATION UNIT

SIDE(R) C.B.A. (VTR OPERATION FLEX.UNIT)

SIDE(R) C.B.A. (R RELAY C.B.A.)

SIDE(R) C.B.A. (LCD DET C.B.A.)

SIDE(R) C.B.A. (SD OPEN C.B.A.)

FP7002

1	KCENON(K)	27
2	KCENON(K)	26
3	KCENON(K)	25
4	KCENON(K)	24
5	KCENON(K)	23
6	KCENON(K)	22
7		21
8		20
9		19
10		18
11		17
12		16
13	GND G	15
14	GND G	14
15	GND G	13
16		12
17		11
18		10
19		9
20		8
21		7
22		6
23		5
24		4
25		3
26		2
27		1
	KCENON(A)	
	KCENON(A)	
	KCENON(A)	
	KCENON(A)	
	KCENON(A)	

FP4801 (24PIN:NV-GS200SERIES) (18PIN:NV-GS120SERIES)

1	IR OUT	1
2	TALLY	2
3	REMOCON	3
4	REG A5V	4
5	REG A5V	5
6	ST NOREG	6
7	ST NOREG	7
8	NOREG GND	8
9	NOREG GND	9
10	MIC 5V	10
11	MIC 5V	11
12	MIC (L)	12
13	MIC GND	13
14	MIC GND	14
15	MIC (R)	15
16	D GND	16
17	D GND	17
18	F OPEN	18
	TRIG END	19
	CHA END	20
	CHARGE	21
	MF L1	22
	MF L2	23
	MF LED	24

FP7001

1	GND
2	MF L1
3	MF VCC
4	MF L2
5	MF VCC
6	MF LED

FP4002

1	D GND
2	D GND
3	F OPEN
4	TRIG END
5	CHA END
6	CHARGE
7	
8	MF L1
9	MF L2
10	MF LED

FP701

1		1
2		2
3	FMR VCC	3
4	FMR VCC	4
5	FMR A	5
6	FMR B	6
7	FMR GND	7
8	FMR GND	8
9	FMT(+)	9
10	FMT(-)	10
11	ALC M(+)	11
12	ALC CNT(+)	12
13	H IN(+)	13
14	H IN(-)	14
15	H OUT(+)	15
16	ALC CNT(-)	16
17	ALC M(-)	17
18	ZAN	18
19	ZBN	19
20	ZAP	20
21	ZBP	21
22	Z ABS	22
23	Z LED	23
24	ZENC VCC	24
25	ND DRV(+)	25
26	ND H IN(+)	26
27	ND H O(+)	27
28	ND H IN(-)	28
29	ND H O(-)	29
30	ND DRV(-)	30
31	ND CNT(-)	31
32	ND CNT(+)	32
33		33

PP201

A GND	21	20	SIG R
SUB R	22	19	A GND
H1 R	23	18	5V RG
H2 R	24	17	5V RG
V4 R	25	16	A GND
V3 R	26	15	A GND
V2 R	27	14	SIG G
V1 R	28	13	A GND
-8V	29	12	V1 G
-8V	30	11	V2 G
SUB G	31	10	V3 G
H1 G	32	9	V4 G
H2 G	33	8	15V
R	34	7	15V
V4 B	35	6	V3 B
V2 B	36	5	V1 B
SUB B	37	4	5V B
H1 B	38	3	5V B
H2 B	39	2	A GND
A GND	40	1	SIG B

PS201

A GND	21	20	SIG R
SUB R	22	19	A GND
H1 R	23	18	5V RG
H2 R	24	17	5V RG
V4 R	25	16	A GND
V3 R	26	15	A GND
V2 R	27	14	SIG G
V1 R	28	13	A GND
-8V	29	12	V1 G
-8V	30	11	V2 G
SUB G	31	10	V3 G
H1 G	32	9	V4 G
H2 G	33	8	15V
R	34	7	15V
V4 B	35	6	V3 B
V2 B	36	5	V1 B
SUB B	37	4	5V B
H1 B	38	3	5V B
H2 B	39	2	A GND
A GND	40	1	SIG B

PP201 (150PIN:NV-GS200SERIES) (100PIN:NV-GS120SERIES)

1	D GND	150	1
2	D GND	149	2
3	D GND	148	3
4	D GND	147	4
5	D GND	146	5
6	D GND	145	6
7	D GND	144	7
8	D GND	143	8
9	D GND	142	9
10	D GND	141	10
11	D GND	140	11
12	D GND	139	12
13	CLK45	138	13
14	Y IN0/YC IN0	137	14
15	Y IN1/YC IN1	136	15
16	Y IN2/YC IN2	135	16
17	Y IN3/YC IN3	134	17
18	Y IN4/YC IN4	133	18
19	Y IN5/YC IN5	132	19
20	Y IN6/YC IN6	131	20
21	Y IN7/YC IN7	130	21
22	C IN0/MYC IN0	129	22
23	C IN1/MYC IN1	128	23
24	C IN2/MYC IN2	127	24
25	C IN3/MYC IN3	126	25
26	C IN4/MYC IN4	125	26
27	C IN5/MYC IN5	124	27
28	C IN6/MYC IN6	123	28
29	C IN7/MYC IN7	122	29
30	CLK135	121	30
31	IN#1	120	31
32	INV	119	32
33	3CCD 3V	118	33
34	3CCD 3V	117	34
35	REG 15V	116	35
36	REG 15V	115	36
37	REG - 7.5V	114	37
38	REG A5V	113	38
39	REG A5V	112	39
40	REG D3V	111	40
41	REG D3V	110	41
42	CAM 1.5V	109	42
43	CAM 1.5V	108	43
44	CAM 1.5V	107	44
45	SUB 1.8V	106	45
46	SUB 1.8V	105	46
47	SUB 1.8V	104	47
48		103	48
49		102	49
50	LENS 3V	101	50
51	MPEG 3V	100	51
52	MPEG 3V	99	52
53	CLKC78 M	98	53
54	CLKC7D	97	54
55	YC IO0	96	55
56	YC IO1	95	56
57	YC IO2	94	57
58	YC IO3	93	58
59	YC IO4	92	59
60	YC IO5	91	60
61	YC IO6	90	61
62	YC IO7	89	62
63	SHMF IWR	88	63
64	SHMF IRS	87	64
65	SHMF CS	86	65
66	SHMF D0	85	66
67	SHMF D1	84	67
68	SHMF D2	83	68
69	SHMF D3	82	69
70	SHMF D4	81	70
71	SHMF D5	80	71
72	SHMF D6	79	72
73	SHMF D7	78	73
74	MPEG D3V	77	74
75	MPEG D3V	76	75

PS3001 (150PIN:NV-GS200SERIES) (100PIN:NV-GS120SERIES)

1	D GND	150	1
2	D GND	149	2
3	D GND	148	3
4	D GND	147	4
5	D GND	146	5
6	D GND	145	6
7	D GND	144	7
8	D GND	143	8
9	D GND	142	9
10	D GND	141	10
11	D GND	140	11
12	D GND	139	12
13	CLK45	138	13
14	Y IN0/YC IN0	137	14
15	Y IN1/YC IN1	136	15
16	Y IN2/YC IN2	135	16
17	Y IN3/YC IN3	134	17
18	Y IN4/YC IN4	133	18
19	Y IN5/YC IN5	132	19
20	Y IN6/YC IN6	131	20
21	Y IN7/YC IN7	130	21
22	C IN0/MYC IN0	129	22
23	C IN1/MYC IN1	128	23
24	C IN2/MYC IN2	127	24
25	C IN3/MYC IN3	126	25
26	C IN4/MYC IN4	125	26
27	C IN5/MYC IN5	124	27
28	C IN6/MYC IN6	123	28
29	C IN7/MYC IN7	122	29
30	CLK135	121	30
31	IN#1/CLK27 CAM	120	31
32	INV	119	32
33	3CCD 3V	118	33
34	3CCD 3V	117	34
35	REG 15V	116	35
36	REG 15V	115	36
37	REG - 7.5V	114	37
38	REG A5V	113	38
39	REG A5V	112	39
40	REG D3V	111	40
41	REG D3V	110	41
42	CAM 1.5V	109	42
43	CAM 1.5V	108	43
44	CAM 1.5V	107	44
45	SUB 1.8V	106	45
46	SUB 1.8V	105	46
47	SUB 1.8V	104	47
48		103	48
49		102	49
50	LENS 3V	101	50
51	MPEG 3V	100	51
52	MPEG 3V	99	52
53	CLKC78 M	98	53
54	CLKC7D	97	54
55	YC IO0	96	55
56	YC IO1	95	56
57	YC IO2	94	57
58	YC IO3	93	58
59	YC IO4	92	59
60	YC IO5	91	60
61	YC IO6	90	61
62	YC IO7	89	62
63	SHMF IWR	88	63
64	SHMF IRS	87	64
65	SHMF CS	86	65
66	SHMF D0	85	66
67	SHMF D1	84	67
68	SHMF D2	83	68
69	SHMF D3	82	69
70	SHMF D4	81	70
71	SHMF D5	80	71
72	SHMF D6	79	72
73	SHMF D7	78	73
74	MPEG D3V	77	74
75	MPEG D3V	76	75

1	D GND	150
2	D GND	149
3	D GND	148
4	D GND	147
5	D GND	146
6	D GND	145
7	D GND	144
8	D GND	143
9	D GND	142
10	D GND	141
11	D GND	140
12	D GND	139
13	CLK45	138
14	Y IN0/YC IN0	137
15	Y IN1/YC IN1	136
16	Y IN2/YC IN2	135
17	Y IN3/YC IN3	134
18	Y IN4/YC IN4	133
19	Y IN5/YC IN5	132
20	Y IN6/YC IN6	131
21	Y IN7/YC IN7	130
22	C IN0/MYC IN0	129
23	C IN1/MYC IN1	128
24	C IN2/MYC IN2	127
25	C IN3/MYC IN3	126
26	C IN4/MYC IN4	125
27	C IN5/MYC IN5	124
28	C IN6/MYC IN6	123
29	C IN7/MYC IN7	122
30	CLK135	121
31	IN#1	120
32	INV	119
33	3CCD 3V	118
34	3CCD 3V	117
35	REG 15V	116
36	REG 15V	115
37	REG - 7.5V	114
38	REG A5V	113
39	REG A5V	112
40	REG D3V	111
41	REG D3V	110
42	CAM 1.5V	109
43	CAM 1.5V	108
44	CAM 1.5V	107
45	SUB 1.8V	106
46	SUB 1.8V	105
47	SUB 1.8V	104
48		103
49		102
50	LENS 3V	101
51	MPEG 3V	100
52	MPEG 3V	99
53	CLKC78 M	98
54	CLKC7D	97
55	YC IO0	96
56	YC IO1	95
57	YC IO2	94
58	YC IO3	93
59	YC IO4	92
60	YC IO5	91
61	YC IO6	90
62	YC IO7	89
63	SHMF IWR	88
64	SHMF IRS	87
65	SHMF CS	86
66	SHMF D0	85
67	SHMF D1	84
68	SHMF D2	83
69	SHMF D3	82
70	SHMF D4	81
71	SHMF D5	80
72	SHMF D6	79
73	SHMF D7	78
74	MPEG D3V	77
75	MPEG D3V	76

FP2001

1	EVR SCK
2	EVR SBI
3	EVR SBO
4	PCST3
5	CAMF VPP/MODE1
6	CAMF VPP/MODE0
7	CAM RST
8	DBGE
9	DREST
10	SDA0 TPC
11	SDI DINT
12	PCST0
13	PCST1
14	P ON
15	DCLK
16	PCST2

PP3001

TEST	1	2
REG A5V	3	4
ATFI	5	6
ENVELOPE	7	8
HID1	9	10
MON M R OUT	11	12
MON M E OUT	13	14
MON M B OUT	15	16
MON M PUL	17	18
MON M VCOM	19	20
V HP R	21	22
MON E R OUT	23	24
MON M G OUT	25	26
MON E B OUT	27	28
MON E VCOM	29	30
CAM AGND	31	32
UARTI	33	34
UARTO	35	36
SYSTEM RST	37	38
CAM VD	39	40

FP6505

D GND	1	2
D GND	3	4
MIC(R)	5	6
MIC GND	7	8
MIC GND	9	10
MIC(L)	11	12
MIC 5V	13	14
MIC 5V	15	16
NOREG GND	17	18
NOREG GND	19	20
	21	22
ST NOREG	23	24
ST NOREG	25	26
ST NOREG	27	28
	29	30
REG A5V	31	32
REG A5V	33	34
REMOCON	35	36
TALLY	37	38
IR OUT	39	40

FP6501

RTC 3V	1	2
	3	4
RTC CS	5	6
RTC SCK	7	8
RTC DTO	9	10
RTC INT	11	12
GND	13	14
AVREF	15	16
ZOOM AD	17	18
	19	20
SP OUT2	21	22
SP OUT2	23	24
SP OUT1	25	26
SP OUT1	27	28
RESET	29	30
	31	32
VTR KEY 5	33	34
	35	36
	37	38
	39	40
POWER ON	41	42

FP6502

DEW	1	2
	3	4
PHOTO2	5	6
PHOTO	7	8
GND	9	10
CAM KEY 1	11	12
REG D3V	13	14
STANDBY LED	15	16
POWER LED	17	18
S/S	19	20
STANDBY SW	21	22
GND	23	24
	25	26
	27	28
	29	30

FP6503

GND	1	2
VTR KEY 3	3	4
VTR KEY 1	5	6
VTR KEY 2	7	8
REG D3V	9	10
LCD OPEN	11	12
CARD LED	13	14
CARD DOOR	15	16
BLC	17	18
REC REV	19	20

FP6601

1	REC REV
2	BLC
3	CARD DOOR
4	CARD LED
5	LCD OPEN
6	GND

FP6302

1	
2	
3	GND
4	ZOOM AD
5	AVREF
6	

FP6301

VTR KEY 5	1	2
	3	4
RESET	5	6
SP OUT1	7	8
SP OUT1	9	10
SP OUT2	11	12
SP OUT2	13	14
ZOOM AD	15	16
AVREF	17	18
GND	19	20
RTC INT	21	22
RTC DIO	23	24
RTC SCK	25	26
RTC CS	27	28
	29	30
RTC 3V	31	32

W T ZOOM

RESET

LITHIUM BATTERY

FULL AUTO/MANUAL/FOCUS

MODE DIAL

POWER START/STOP

QUIQ START

PHOTO SHOT

REW/SER(-) PLAY/BLC FF/SER(+) MENU

COLOUR NIGHT VIEW STOP/ FADE PAUSE/ STILL MULTI/ P-IN-P

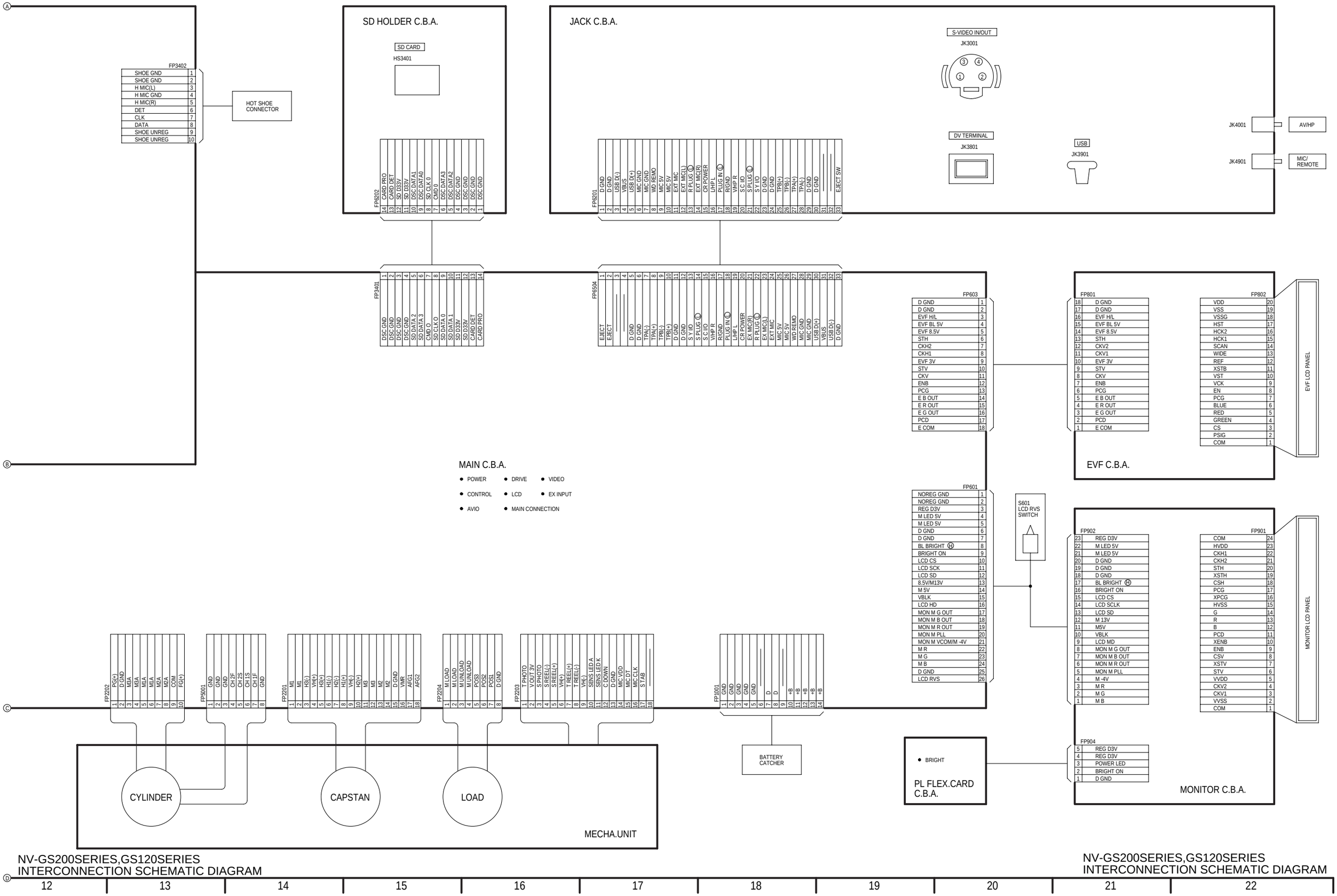
BACK LIGHT TELE MACRO SOFT SKIN REC

REC/REV

BLC

LCD OPEN

CARD DOOR



NV-GS200SERIES,GS120SERIES
INTERCONNECTION SCHEMATIC DIAGRAM

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INTERCONNECTION SCHEMATIC DIAGRAM